THE NORTH-WESTERN LINE

# $50

TO

# CALIFORNIA

## AND RETURN

from Chicago. Correspondingly low rates from all points. Strictly first-class round-trip tickets to San Francisco and Los Angeles at this low rate, on sale May 3 and daily May 12 to 18. Variable routes, liberal time limits, fast schedules and train service of the highest character. The route is over the only double-track railway between Chicago and the Missouri River.

## THE

# OVERLAND LIMITED

The most luxurious train in the world. Leaves Chicago 8.00 p. m. daily, through to San Francisco without change. Less than three days en route. Private compartment, observation, drawing-room, dining, and buffet-smoking cars, barber, bath, Booklovers Library and telephone.

## Electric Lighted Throughout

***The Best of Everything.***

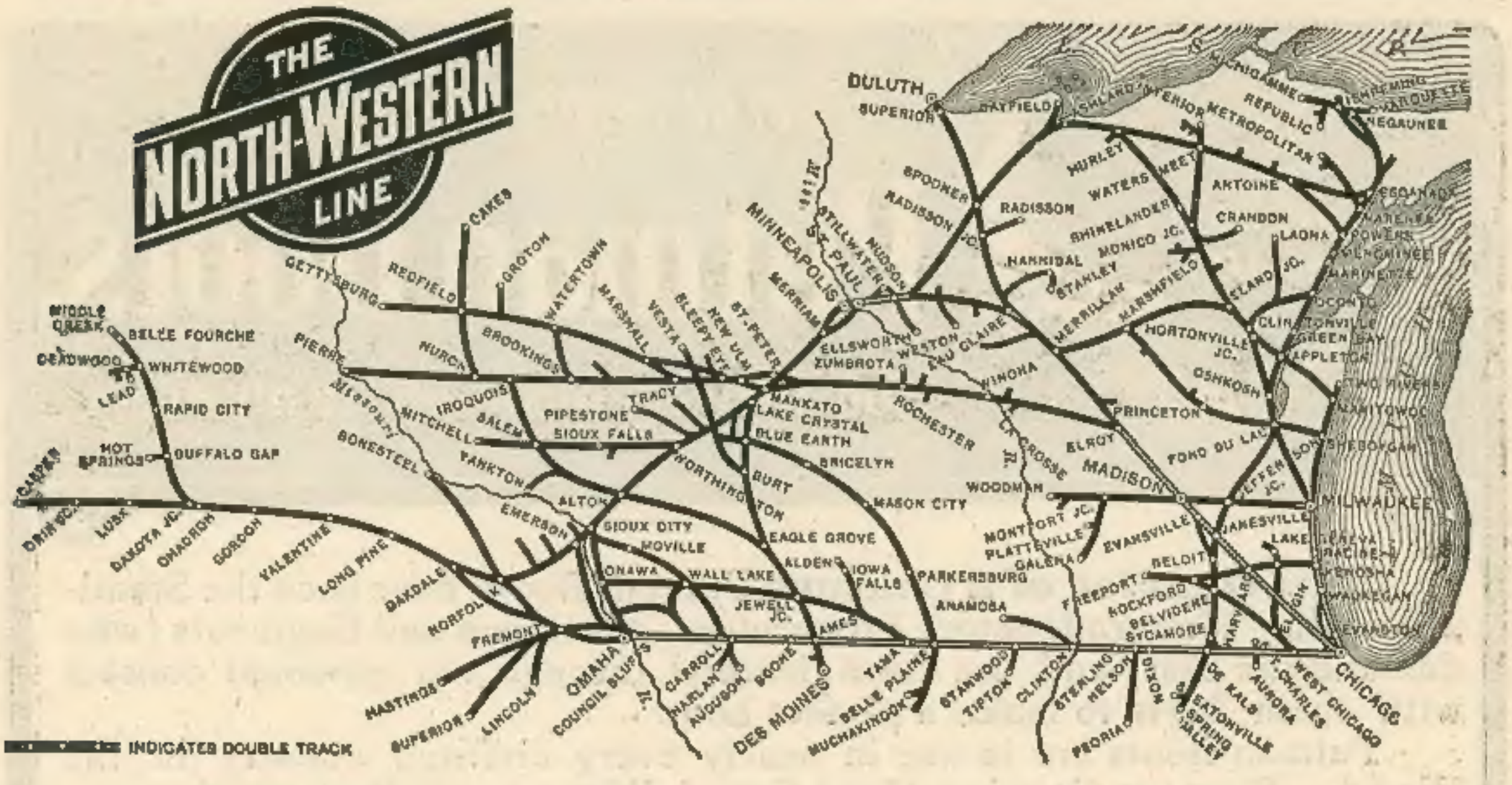
Two other fast trains leave Chicago 10.00 a. m. and 11.30 p. m. daily.

**Chicago & North-Western**
**Union Pacific and**
**Southern Pacific Rys.**

All agents sell tickets via this route.

OLS

UNION PACIFIC
THE OVERLAND ROUTE
WORLD'S PICTORIAL LINE.




# Opportunity

## Opportunity to work

## Opportunity to establish a home

## Opportunity to acquire a competence

## Opportunity to educate your family

Opportunity for the farmer to secure fertile lands cheaply, for the merchant to reach a large tributary country, for the manufacturer to secure raw material, excellent water power, near-by markets and intelligent labor, for the laborer to establish a home and raise and educate his family in comparative luxury. All this is yours in the nine western commonwealths through which The North-Western Line passes.

## Ninety New Towns

Along recently built extensions of The North-Western Line, offer flattering business opportunities to mechanics, merchants, farmers, laborers and professional men, which are told about in a little pamphlet entitled "Opportunities for Business," sent free to any address on application.

Special low rates are made via The North-Western Line for home seekers and settlers, concerning which any ticket agent will give full particulars on application. It will pay you to investigate.

Address Section P, Traffic Department, Chicago & North-Western Railway.
CHICAGO, ILL.

NW109

*From babyhood to old age*

# CREAM of WHEAT

brings a smile of welcome. Palatable, wholesome, nourishing, good at all times for all people. Served in many tempting forms,~dainty breakfasts, delicious desserts.

CREAM of WHEAT CO., Minneapolis, Minn.

## The Inevitable Price

THERE was a delightful schoolmistress who used time to impress on her school-girls certain robust distinctions. "My dears, always 'sweat,' young men perspire, young ladies are all in a glow." In those outspoken days, when a maxim is called at you without a ripple, the gentle euphuism is a matter for amusement, to be laughed at with affectionate patronage like an old-time poem out of a grandmother's chest. Young ladies have disappeared and girls get quite as warm as their brothers nowadays, and on the whole the change is vastly for the better, truthfulness being ever safer in youth and more apt to be attractive. Yet, the further we go from the lovesick days the more inevitably we must recognize a price paid for our freedom, a certain stately charm gone out of life and human intercourse. The formality of close lines made barriers, and in barriers, after all, lie the half of romance. It is the face between the veil that we are most eager to see, the voice behind the wall that tempts us to most strenuous climbing. What could be prettier or more inaccessible than a young lady all in a glow?

She is still at least essentially old-fashioned, and the modern girl, refusing in her new exposure of frankness and courage and unconventionality, sometimes feels him strangely unresponsive. Theoretically he is thoroughly in sympathy with her, as a reasonable being she must be, but for all that he dimly realizes that something is missing—a price has been paid. The unfashionably modest young beauty, with its downcast ruffle curtain and its lace curtain across the front, gave a piquancy that the unveiled intercourse of to-day can never attain. We have better things than piquancy, perhaps. Yet a portion of the glamour inevitably went with the foolish but alluring practises of the days when the dame made a courtesy to the dog's bow-wow.

## A New Decalogue

A NEW ten commandments, which the people of Rapallo, in northern Italy, have lately adopted, is of wide interest. This new decalogue is not primarily for grown-ups, but for the children of the town, and it is expected that the little folks will, in their schools, learn the ten rules by heart.

Love thy schoolmates, for they will be thy co-workers in life.

Love knowledge, the bread of intellect. Cherish the same gratitude toward thy teachers as toward thy father and mother.

Make every day thus leave the occasion for some good and beneficial deed; always love the souls of kindness.

Honor good men and true women, esteem all men as equals, bend thy knee to no one.

Do not treat ill or scornfully any person. The word revenge shall not be in thy vocabulary, but stand up for thy rights and resist oppression.

Duty's for a reward; stand by the weak and respect and love justice.

Remember that all goods of this world are the products of labor. Whoever takes the good things of this world without giving their equivalent in labor robs the diligent of their just dues.

Exercise thy mind; observe and think and try to ascertain the truth of all things. Believe in nothing mysterious, in nothing unreasonable; use no deception either toward thyself or others.

Do not assume that to be patriotic you must hate other nations or glory in war. War is a relic of barbarism.

Let it be thy purpose in life to hasten the day when all men, as free citizens of a free state, shall live in peace and happiness, in true brotherhood.

## The Lion's Mouth

THE LION'S MOUTH is a department of COLLIER'S WEEKLY which contributes monthly prizes, aggregating in value $1000, with opportunities for consolation winnings, the greatest of which amounts to $1000 in cash. The prizes in the February contest are awarded for answers to the following questions:

1. Which of the four numbers published in February covers the best, and which do you like least, and why?

2. Which article in those four numbers do you like best, and which do you like least, and why?

3. Which story do you like best, and which do you like least, and why; and are you reading the serial?

4. Which Amazing Offer includes the most do you like best, and which do you like least, and why?

5. Which photograph, or series of photographs, do you like best, and which do you like least, and why?

6. Which department in COLLIER'S WEEKLY do you like best, and which do you like least, and why?

7. Which feature of the Household Number do you like best, and which do you like least, and why?

8. What feature of COLLIER'S WEEKLY, if any, is not to your liking?

9. What suggestion can you make that, in your opinion, will improve COLLIER'S WEEKLY?

10. What publication, apart from COLLIER'S WEEKLY, do you like best, and why?

There is a booklet which tells all about this competition, and which may be had upon request with a remittance of four cents for postage. The book is copiously illustrated in colors by C. D. Gibson, Edward Penfield, Frederic Remington, Henry Hutt and many others. Address your request for it to THE LION'S MOUTH, 416 West Thirteenth Street, New York City.


COSTS NOTHING TO INVESTIGATE. WRITE FOR OUR PROPOSITION ANYWAY

**$20 to $35 and Expenses Weekly** NO EXPERIENCE REQUIRED

# $1000 to $1500 Annual Income

Let Us Start You

*WRITE TO-DAY*

**Big Profits**

DON'T BE HARD UP

*Write Us To-Day*

New, Quick Process

**No Humbug, Fake or Toy Proposition**

An Honest, Legitimate Enterprise, Backed By An Old, Reliable, Responsible Firm, Capital $100,000.

**We Manufacture Complete Outfits**

ALL SIZES

*What Is the Use of Your Slaving Longer for Some One Else*

Why not start a business for yourself, reap all the profits and get a standing in your locality.

If you are in some one's employ, remember he will not continue to pay you a salary only so long as he can make profit out of your labor.

In this era every bright man and woman is looking to own a business, to employ help, and to make money.

It is not so easy to make money for yourself as it is to earn money for some grasping employer, who pays you a small salary each week.

If you are making less than $20 weekly it will pay you to read this announcement, for it will not appear again in this paper.

If you read it and take advantage of the opportunity offered, you will never regret it. To own a business yourself is certainly your ambition.

**We start** you in a profitable business. Teach you **absolutely free** how to conduct it.

To show you what others have done, we quote the expressions of a few who have made money in the nickel, gold, silver and metal plating business.

"MR. REED MADE $61.50 THE FIRST DAYS." Mr. Cox writes: "Can get I can do. Expect business. Customers happy." Dave Crawford writes: "The first week I had my outfit I made $42.75." E. D. Wagenhorst writes: "Am in yours all. Just completed job (the pieces tableware. I clear about $100 a day profit."

Gentlemen and ladies positively make $5 to $20 a day at home or traveling, taking orders, using, selling and appointing agents for PROF. GRAY'S Latest improved, Guaranteed Plating Machines and Outfits. NO FAKE OR TOYS, but genuine practical, complete, scientific outfits for doing the best of plating, on WATCHES, JEWELRY, KNIVES, FORKS, SPOONS, CASTORS, TABLEWARE OF ALL KINDS, BICYCLES, SEWING MACHINES, STOVES, RANGES, REFRIGERATORS, HARNESS AND BUGGY TRIMMINGS, metal novelties, or fact all kinds of metal goods. HEAVY THICK PLATE EVERY TIME, GUARANTEED TO WEAR FOR YEARS. No experience necessary.

There is really a wonderful demand for replating. You can do business in nearly every home, store, office or factory. Almost every family has from $5 to $10 worth of tableware to be plated. Besides watches, jewelry, bicycles, etc.

**Every boarding house, hotel, restaurant, college or public institution** has from $5 to $25 worth of ware to be plated. **Every jeweler, repair or bicycle shop, every dentist, doctor and surgeon**, every man, woman and child you meet has either a watch, some jewelry, bicycles, instruments, or some articles needing plating.

**Besides the above** there are hundreds of peculiar and manufacturers of metal goods, bicycles, sewing machines and typewriter repair shops who want their goods plated, or to whom you can sell a plating outfit, furnishing them supplies for doing their own plating.

**Retail Stores** who handle hardware, harness, tableware and plated or metal goods all need a plating and polishing outfit for refinishing goods that become worn, soiled, rusty or tarnished.

**Every Undertaker** requires a plating outfit for repairing and finishing coffin and hearse trimmings which are worn, tarnished or worn.

**Manufacturers** are making and selling nearly all new tableware, jewelry, bicycles and countless kinds of metal goods every month which becoming every thin plate, which, in a few weeks, wears off, making the goods unsightly, and for future use useless, place.

Manufacturers of new goods do no replating on old goods whatever, but try to force the public to throw away the old and buy new at high prices, but this only makes the plating business better.

**The more new thinly plated goods sold the greater will be the demand for plating.** Plate some with this for your friends and neighbors by Professor Gray's Process, and it quickly pervades to them its genuineness and worth and they come plating to them thicker, will wear better and longer

Factory and Warehouse of Gray & Co., Cincinnati, Ohio. Capital $100,000. Employs 200 to 300 people daily.

than a large percentage of the new goods. Your trade is then established, and within a short time you will have all the goods you can plate.

**Plate a few articles for your friends**, and a few weeks, a few months, or few years later, and you will find the plate unsatisfactory, and they will give you every article they have needing to be plated.

**When you deliver** the goods plated to customers they will be well pleased, in fact delighted with the work, will pay for it promptly, and you will be given on an average twice as much work to be plated as they gave you the first time you called.

*You Can Do Plating So Cheap*

that every person can afford to have their goods plated.

**No tidy housekeeper** will allow worn and rusty tableware to go to have a good when it can be restored and made equal to new.

**No person** will wear jewelry or a watch, or ride a bicycle, or use a typewriter, sewing machine, or any machine made of metal from which the plate is worn off when they see samples of your work and hear your prices. People in the day and generation are too sensible and economical to throw away their old goods and buy new when they can have their old goods replated for so small a cost, making them, in many cases, better than when new.

The best part of the plating business is that it business and is permanent.

Put out your sign, secure your outfit, do a little work, and quickly you will be favored with orders. If you do not wish to do the plating yourself you can hire boys for $1 or $2 a week to do the work the same as we do, and solicitors to gather up goods to be plated on commission.

It is not hard work, but is pleasant, and especially as when your business is netting you $10 to $15 a week for your hours' work a day.

*The Royal Silver Outfit*

*Prof. Gray's Famous Discovery*

THE NEW DIPPING PROCESS is the latest, quickest, easiest method known. Tableware plated by simply dipping in melted metal, takes out instantly, with a fine, brilliant, beautiful plate deposited, all ready to dry and be burnished. MAKES THICK PLATE EVERY TIME. GUARANTEED TO WEAR FOR 25 YEARS. A HOT PLATES can be put **pieces tableware daily, from $10 to $30 worth of work**, profits almost one per cent. Goods come out of plate finely finished. **No polishing, grinding, or work necessary, neither before or after plating.**

**You will not need to canvass.** Agents wear their have all the goods they can plate. People bring it to solicitors. You can hire boys cheap to do your grinding, the same as we do, and solicitors to gather work for a small per cent. Put a small advertisement or two in your local paper and you will have all the plating you can do. The plating business is honest and legitimate. Plating on our machines gives perfect satisfaction. Wages for years customers are always delighted and recommend you and your work.

**We are an old established firm, have been in business for years.** Know exactly what is required, furnish complete outfits, the same as we ourselves use, and customers always have the benefit of our experience. **We are responsible and guarantee everything. Reader, here is a chance of a lifetime to go in business for yourself. We start you.** Now is the time to make money.

*FREE—Write Us To-Day*

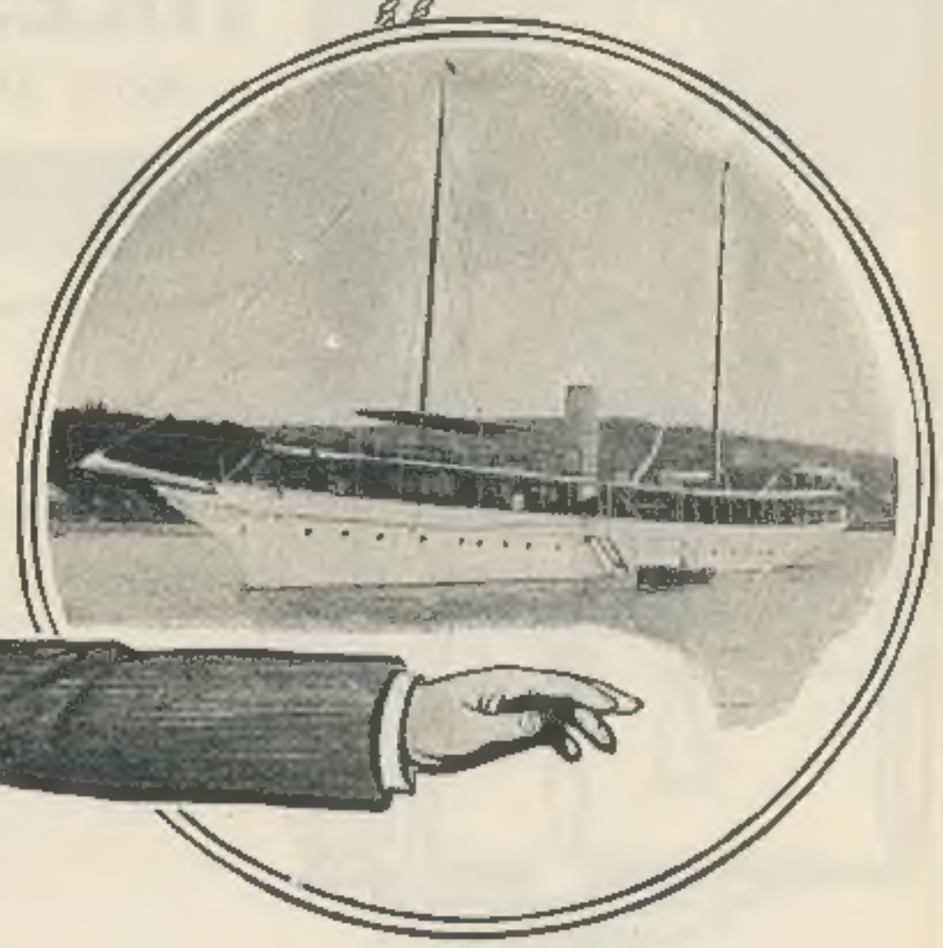
for our new plan and proposition; also valuable information how the plating is done. Send us your name, as we can start you without delay. If you wish to see a sample of plating by our Outfit, send 2c. postage. Send your address anyway.

**GRAY & CO., Plating Works, 359 Miami Building, Cincinnati, Ohio**

The above firm is thoroughly reliable and do just as they agree. The outfits are just as represented, and do fine plating, and after investigation we consider this one of the best plating businesses we have yet heard of.—Editor COLLIER'S WEEKLY.

# Gas Engine & Power Co. and Charles L. Seabury & Co.

## Consolidated.



We Build

Steam Yachts,
Naphtha Launches,
Gasoline Launches,
Alco Vapor Launches,
Sail Yachts,
Auxiliaries.

11 Broadway, New York City.
115 Dearborn St., Chicago, Ills.

Works,
Morris Heights, New York City.

Send 10 cts. stamps for catalog.

Gas Engine & Power Co.,
*and*
Charles L. Seabury & Co.,
Consolidated.

DECEMBER 1903

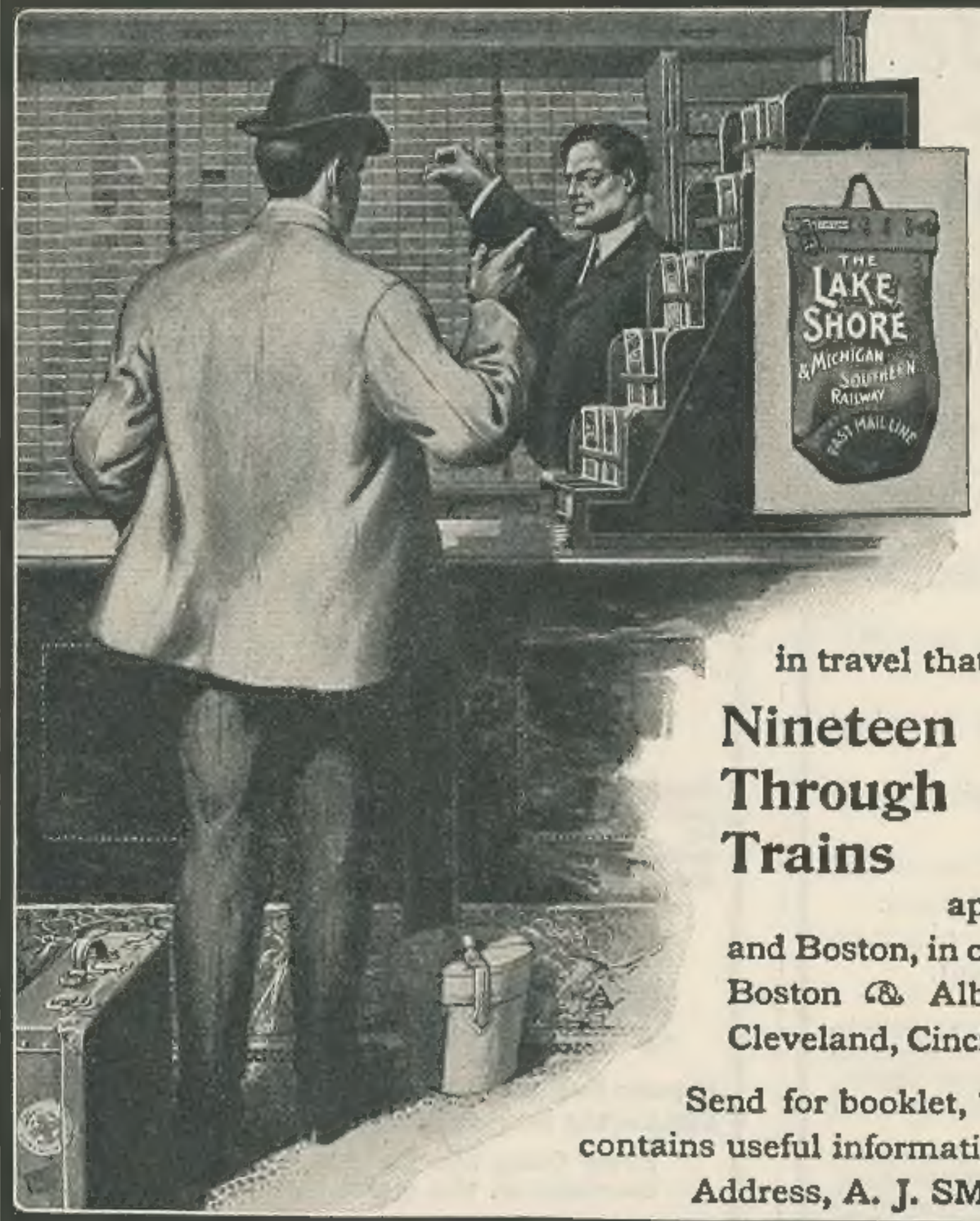
# SUCCESS

## Christmas Number

THE SUCCESS COMPANY
University Building, New York City

and 10 Nördolk St., Strand
London, England

TEN CENTS A COPY
ONE DOLLAR A YEAR




# Don't Forget!

**WHEN YOU BUY** a ticket don't forget to tell the ticket agent plainly that you wish it over the Lake Shore & Michigan Southern Railway. You will secure the best in travel that money can buy.

**Nineteen Through Trains**

In daily service over the Lake Shore & Michigan Southern Railway between the cities of Chicago and Toledo, Cleveland, Buffalo, St. Louis, Indianapolis, Cincinnati, Pittsburg, New York and Boston, in connection with the New York Central, Boston & Albany, Pittsburg & Lake Erie and Cleveland, Cincinnati, Chicago & St. Louis Railroads.

Send for booklet, "Privileges for Lake Shore Patrons," contains useful information; also "Book of Trains."
Address, A. J. SMITH, G. P. & T. A., Cleveland, Ohio

MANZ



"Free from the care which wearies and annoys,
Where every hour brings its several joys."

# SOUTHERN

# LAND OF THE SUN

**LOS ANGELES** is the first city in the United States for increase in population and wealth. It is the capital of the "Land of the Sun." If you want to know what is going on in the home of the orange, the fig and the vine,

get a copy of

## The Los Angeles Times

The foremost exponent of the rich, promising and expanding Southwest. Devoted for twenty years to its exploitation and development. An encyclopedia of reliable information--an "eye-opener" for countless inquirers everywhere.

THE TIMES stands for liberty and law, individual rights and industrial freedom. It is against the strike, the lockout, the boycott, and the conspiracy to injure the citizen and the country.

Daily, 12 to 20 pages; Sunday, 60 to 72 pages, besides a Sunday Magazine of 32 pages, a storehouse of facts and up-to-date literature, with a peculiarly Californian and Southwestern "out-door" flavor. Terms, 75 cents a month, $9.00 per year. Sunday issue only, including magazine, $2,50 a year, by mail. SAMPLE COPIES FREE.

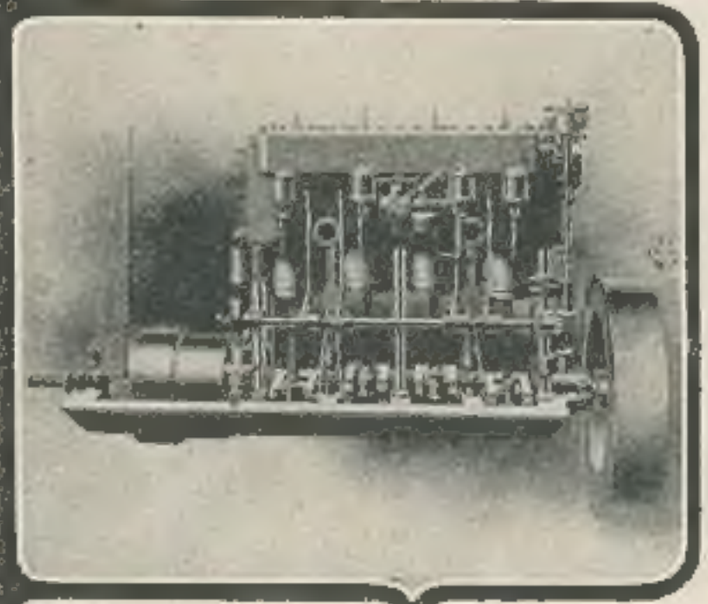
The classified columns give a splendid idea of the many opportunities for business and investment in the Southwest.

## The Times-Mirror Company

LOS ANGELES, CAL.

HARRISON GRAY OTIS
Editor and General Manager

WE BUILD MORE HIGH-GRADE, HIGH-SPEED, LARGE GASOLINE YACHTS AND LAUNCHES

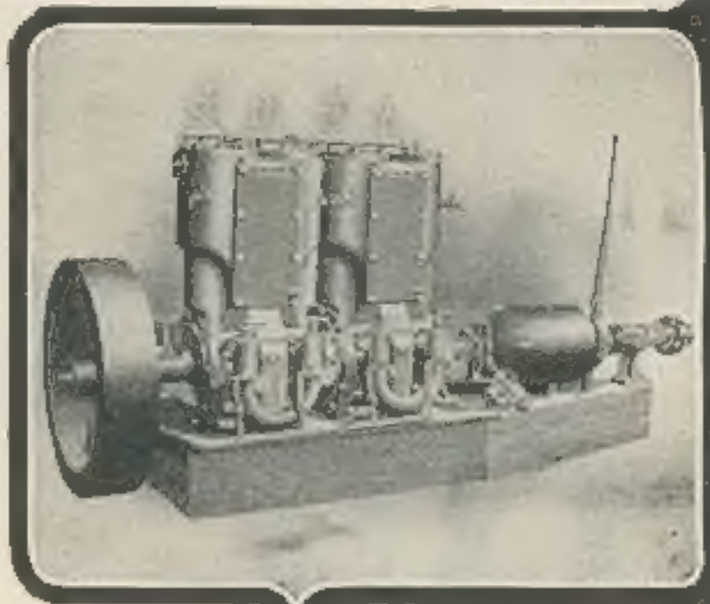


than any other builders in the world.
We have manufactured

# Gasoline Marine Engines

for 15 years. It's that experience we offer you. Ask your boat-builder to specify **Sintz** or **King** Engines.

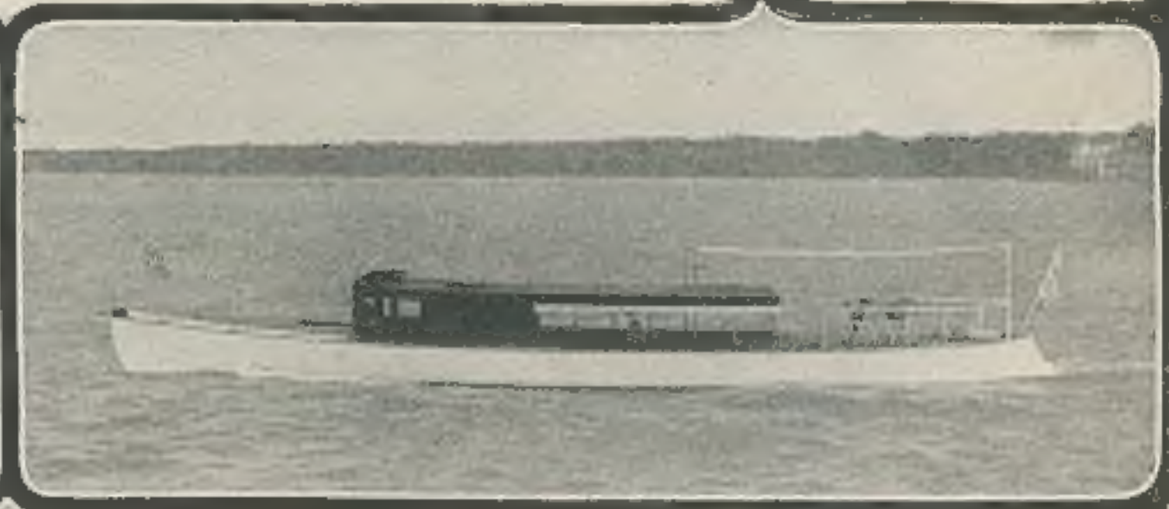
*Send for Catalogue.*

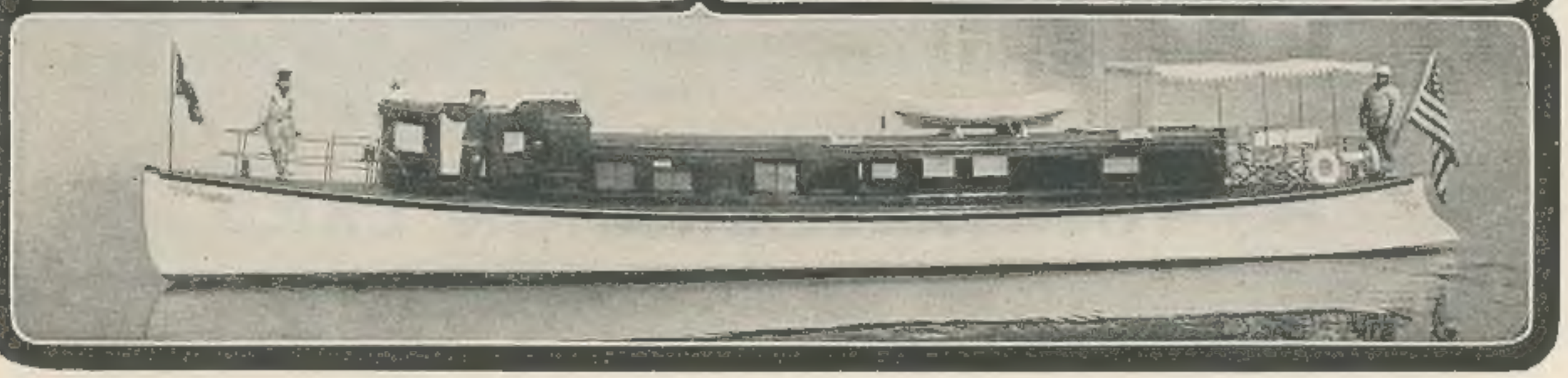


**"KING"**
Engine,
Four Cycle,
5 to 100 H. P.

## Michigan Yacht & Power Co.
## Sintz Gas Engine Co.
(CONSOLIDATED)
1566 Jefferson Ave., **DETROIT, MICH., U. S. A.**

**"SINTZ"**
Engine,
Two Cycle,
1 to 4 Cylinder,
1½ to 50 H. P.





# GREAT LAKES OF AMERICA

IN ALL THE WORLD NO TRIP LIKE THIS

**BUFFALO DULUTH CHICAGO**

**Season opens June 17th. The Steamer NORTH-WEST will make weekly trips between Buffalo and Duluth. Steamer NORTH-LAND will resume weekly Sailings between Buffalo and Chicago. This arrangement will make it possible to tour all of the Great Lakes, including Superior, under conditions of enjoyment unsurpassed in modern travel.**

Sailings from Buffalo, Wednesdays and Saturdays.
Sailings from Chicago, Saturdays.
Sailings from Duluth, Tuesdays.

**HOWARD JAMES, President.**

For information address,
**W. M. LOWRIE, Genl. Pass. Agt., Buffalo, N. Y.**

KREMENTZ 14 K. EVERY GENUINE KREMENTZ 10 K.

# KREMENTZ

## ONE PIECE COLLAR BUTTON

Has the name "Krementz" stamped on the back, showing quality, whether solid or plate, as our plate outwears some solid buttons. Beware of imitations. You get a new one without charge in case a genuine **Krementz** button is damaged from any cause. Special styles for Ladies' Shirt Waists and Children's Dresses.
Sold by all jewelers.

KREMENTZ STERLING

**The Story of a Collar Button free** on request

**KREMENTZ & CO.,**
53 CHESTNUT ST., NEWARK, N. J.

KREMENTZ PLATE

# STAMMERING

**PAY WHEN CURED**

Not a cent in advance. We have so much confidence in our method that we make this great offer to every person afflicted with defective speech. Send for our **free book**, which explains everything and tells how to get our complete treatment **free.** Private instruction. Fully reliable. Special rates in May and June.
**DODGE SCHOOL, 103 S. Main Street, Brighton, Ill.**

# YOUR REAL ESTATE OR BUSINESS

sold quickly for cash; send price and description. Established 20 years; bank references; write to-day. **FRANK P. CLEVELAND, Real Estate Expert, 5602 Adams Express Building, Chicago.**

# SIX PER CENT INTEREST NET

Earned absolutely and safely on gilt edge securities

**Choice Oklahoma First Mortgages,**

On improved farms, worth many times amount loaned. Securities examined by our salaried experts. Write for latest offering.

WINNE & WINNE, WINNE BUILDING, WICHITA, KANSAS

# Half Off On Typewriters

All the leading makes—
**Remington, Smith-Premier, Oliver, Yost, Jewett, Densmore, etc.**

Rent, sell, buy or exchange. Rent a machine for a month on trial. If you decide to purchase it, rent applies on price.

Write for catalogue.

**C. F. WENHAM CO.**
259 CLARK STREET, CHICAGO.

(Bargains also in Desks, Safes, and other office fixtures. Credit to responsible parties. This is the Largest House of its kind in the world.)

# MAGIC LANTERNS

**STEREOPTICONS and VIEWS**
for Public Exhibitions, Church Entertainments, for illustrating sermons. Many sizes, all prices. Chance for men with little capital to **make money.** 260 page catalog **free.**
**McALLISTER, Mfg. Optician, 49 Nassau St., New York.**

# SIGNET BRACELET

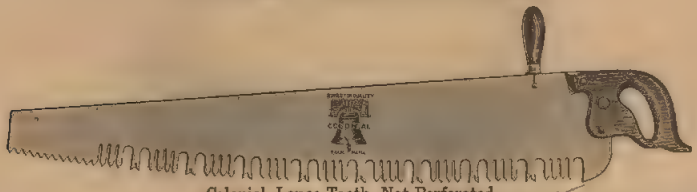
Cut five-sixths size
**STERLING SILVER**

Fine Catalogue Free
**SUBSTANTIAL WEIGHT**

By mail, **50c.** in coin or stamps. One initial free.
**THE WARREN MANSFIELD CO., Jewelers and Silversmiths**
Established 1867 243 Middle St., Portland, Maine

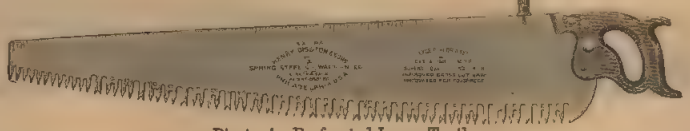
# One Man Cross Cut Saws.





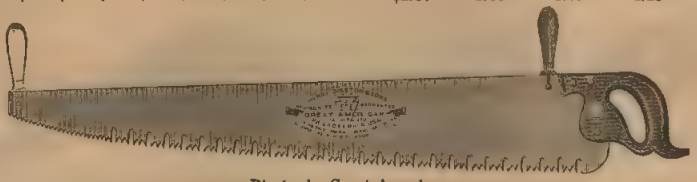
Colonial, Lance Tooth, Not Perforated.

| Length, Ft., | 3 | 3½ | 4 | 4½ | 5 | 5½ |
|---|---|---|---|---|---|---|
| Code, | Feltrarlo | Feltrinos | Feltro | Feltrollo | Feltvrem | Feltro |
| Weight Each, lbs., | 3½ | 4¼ | 5½ | 7 | 7½ | 8½ |
| Each, | $2.55 | 3.00 | 3.40 | 3.90 | 4.35 | 4.75 |



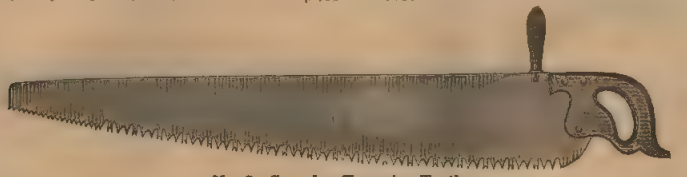
Disston's, Perforated Lance Tooth.

| Length, Ft., | 3 | 3½ | 4 | 4½ | 5 |
|---|---|---|---|---|---|
| Code, | Femellis | Femelot | Femellles | Femeolno | Femfuscy |
| Weight Each, lbs., | 3½ | 4¼ | 5½ | 6½ | 7 |
| Each, | $2.80 | 3.30 | 3.75 | 4.25 | 4.70 |



Disston's, Great American.

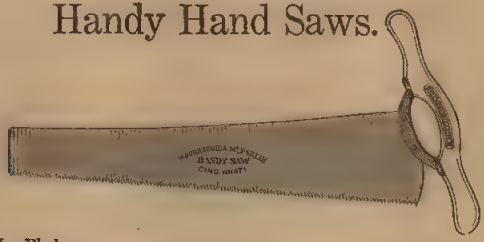
| Length, Ft., | 3 | 3½ | 4 | 4½ | 5 | 5½ |
|---|---|---|---|---|---|---|
| Code, | Feminela | Femineos | Femhill | Femme | Femoral | Femocales |
| Weight Each, lbs., | 4 | 4¾ | 5½ | 7 | 7½ | 8½ |
| Each, | $2.55 | 2.85 | 3.25 | 3.65 | 4.10 | 4.55 |



No. 2—Superba, Champion Tooth.

| Length, Ft., | 2½ | 3 | 3½ | 4 | 4½ | 5 | 5½ |
|---|---|---|---|---|---|---|---|
| Code, | Femur | Femures | Femaleons | Femuses | Fenchel | Fenchos | Fenclus |
| Weight Each, lbs., | 3¼ | 3¾ | 4¼ | 5½ | 6½ | 7 | 8 |
| Each, | $2.00 | 2.25 | 2.60 | 3.00 | 3.35 | 3.70 | 4.10 |

# Handy Hand Saws.



Code Fenlendo
**Handy Hand Saws, 26 In. Blade,** . . . . . Per Dozen $12.00

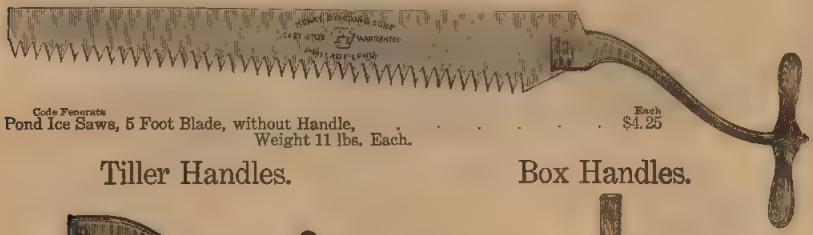
Weight 24 lbs. Per Dozen.

# Pit Saws.

Disston's, Special Temper.

| Length, Ft., | 6 | 7 |
|---|---|---|
| Code, | Fendille | Fendinha |
| Weight Each, lbs., | 8½ | 12 |
| Each, | $6.00 | 7.00 |

# Pond Ice Saws.



Code Fenerats
**Pond Ice Saws, 5 Foot Blade, without Handle,** . . . . . Each $4.25
Weight 11 lbs. Each.

## Tiller Handles.

Code Fennel
**Tiller Handles, Suitable for Pit and Pond Ice Saws,** . . . . . Each $1.25
Weight 6 lbs. Each.

## Box Handles.

Code Fenlcuro
**Box Handles, Suitable for Pit Saws,** . . . . . Each $1.00
Weight 3½ lbs. Each.

# CORK SCREWS.

No. — Per dozen
**7294,** 5½ in. long, Fancy Round Shank, Convex Twist — 2.60
One dozen in a box

No. — Per dozen
**99,** 4½ in. long, Plated..... ..... — .60
One dozen on card.

No. — Per dozen
**27,** 5 in. long, Polished, Heavy, Round Shank, Convex Twist .. — 6.70
One dozen in a box

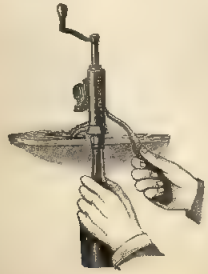
No. — Per dozen
**1719N,** 6 in. long, Nickel Plated Spiral Spring, Convex Twist — 2.40

No. — Per dozen
**7171,** 4½ in. long, Nickel Plated, Pocket Lever, Convex Twist.... — 6 80

No. — Per dozen
**8487,** 6 in long, Nickel Plated, Convex Twist — 3 50

No. — Per dozen
**577,** 7½ in. long, Bronzed, Wood Handle and Brush with Rack, Convex Twist .... ..... .... — 8.80

No. — Per dozen
**576,** 6 in. long, full Nickel Plated, Self-raising, Convex Twist..... — 7.50



Per dozen
"**Samson**" Cork Puller ..... — 30.00

No. 6043.

No. 843.

No. — Per dozen
**5001,** 6 in. long, full Nickel Plated, with Rack, Spiral Twist ..... — 2.40
**6043,** 6 in long, full Nickel Plated, Convex Twist ..... — 6 60
**843,** 7 in. long, Nickel Plated, Automatic Action ..... — 12.80
All above Cork Screws one dozen in box.

## SCREWS ONLY.

For — Per dozen
"**Samson**" Cork Puller, 3 in. long — 3.00
"**Quick and Easy**" " 6 " — 9.60
One dozen in box

No. — Per dozen
**8,** 6 in. long, Nickel Plated, Convex Twist ..... — 3.00

Prices for full boxes

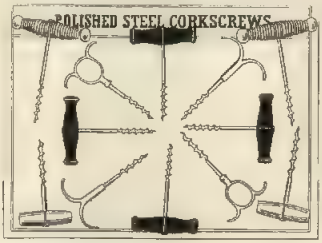
# CORK SCREWS

No. Per dozen
**621/4,** 2¼ in. wide, pol'd, convex twist 1 30
**621/5,** 2½ in. " " " 1.40

No. Per dozen
**115,** 2½ in. wide, Nickel plated, convex twist..... 2.50

No. Per dozen
**1718N,** 2¾ in. closed, nickel plated, folding, with spring, convex twist 3.10

No. Per dozen
**7486,** 3½ in. closed, nickel plated, folding, convex twist . 3.20




No. Per dozen
**558,** Assorted on cards . .80
**26,** " " . 1.50
One dozen on card.

No. Per dozen
**5039,** 3 in. long, nickel plated, convex twist . ... 3.60
**585,** 2¾ in. long, German silver, convex twist . .. 6 80
**583N,** 3 in. long, German silver, spiral twist . .. . . 9 10

No. Per dozen
**527½,** 5 in. long, bronzed, iron handle convex twist ..... ..... 1.30
**527,** . . . 1.70

No. Per dozen
**2617½,** 5 in. long, blued handle, convex twist . ... ..... 1.80
**9909,** 6 in. long, full polished, convex twist..... 4.30

No. Per dozen
**7020,** 4½ in. long, nickel plated, four finger handle, convex twist . 1.40

No. Per dozen
**8930,** 5½ in. long, fancy round shank, nickel band, convex twist .... 2.70

No. Per dozen
**7293,** 5½ in long, fancy round shank, spiral twist ..... 2.70
One dozen in a box.

No. Per dozen
**7302,** 5⅛ in. long, round shank, convex twist ..... .. . ... .... 1.90

"**ELLIOT'S**" **hand-forged** Carving Knives and Forks are the very best made.

H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

Wholesale Only. **SLEIGH BELLS ON LEATHER STRAPS.** Only Wholesale.

"Alaska."

| | | Each |
|---|---|---|
| o **014,** 30 | " " " | 1 15 |
| **015,** 40 | " " " | 1.75 |
| **016,** 50 | " " " | 2.00 |

"Dexter."

Stamped **Steel**, Nickel Plated

| | | Each |
|---|---|---|
| No. **043,** 12 Bells, Back Strap | | .68 |
| **046,** 24 " Body " | | 1 00 |
| **047,** 30 " " " | | 1 60 |
| **048,** 40 " " " | | 1 80 |
| **049,** 50 " " " | | 2.10 |
| **050,** 60 " " " | | 2 70 |

"Dexter"

Sheet **Brass**, Nickel Plated.

| | | Each |
|---|---|---|
| No. **43,** 12 Bells, Back Strap | | .90 |
| **46,** 24 " Body " | | 1 80 |
| **47,** 30 " " " | | 2.15 |
| **48,** 40 " " " | | 2.65 |
| **50,** 60 " " " | | 3 80 |
| **51,** 10 " " " | | 1 10 |

Gilt Sheet Brass.

| | | |
|---|---|---|
| No **46G,** 24 Bells, Body Strap | | 1 80 |
| **49G,** 50 " " | | 3 50 |

"Centennial."

Nickel Plated, Cast Metal.

| | | Each |
|---|---|---|
| No **25,** 12 Bells, Back Strap | | 1.06 |
| **29,** 30 " Body " | | 2 50 |
| **30,** 40 " " " | | 3 15 |
| **31,** 50 " " " | | 4 00 |
| **32,** 10 " Back " | | 1 15 |
| **33,** 12 " " " | | 1 30 |
| **36,** 30 " Body " | | 3 30 |
| **38,** 10 " " " | | 1 80 |

Leather Bound

| | |
|---|---|
| **304B,** 40 Bells, Body Strap | 4 00 |

"Dome."

Nickel Plated, Cast Metal

Extra Fine Tone.

| | | Each |
|---|---|---|
| No. **74,** 12 Bells, Back Strap | | 1 20 |
| **78,** 30 " Body " | | 2 80 |
| **79,** 40 " " " | | 3 60 |

"C. O. C."

Metal Plated, Sheet Brass.

| | | Each |
|---|---|---|
| No. **161,** 30 " Body " | | 2 15 |
| **164,** 60 " " " | | 2.80 |

Gilt Sheet Brass.

| | | |
|---|---|---|
| **161G,** 30 Bells, Body Strap | | 2.15 |
| **162G,** 40 " " | | 2.60 |
| **163G,** 50 " " | | 3.15 |

## YORK EYE BELLS.

Nickel Plated

| | | Per dozen |
|---|---|---|
| Common Shape | | |
| No. **10,** 1¼ in. dia. | | 1.76 |
| Pear Shape | | |
| No. **10,** 1¼ in. dia. | | 2 40 |
| **12,** 2¼ " | | 2.80 |
| **14,** 2½ " | | 3.30 |

One dozen in a box

## SWISS TEAM BELLS.

Not Tuned.

| Nos | 4 | 05 | 6 |
|---|---|---|---|
| Dia. inches | 4 | 4½ | 5 |
| Per dozen | 12.00 | 18.00 | 24 00 |

## ENGLISH CAST BELL METAL.

Polished Rims.

| Weight | 6 | 8 | 10 | 12 | 14 | 16 | ounces |
|---|---|---|---|---|---|---|---|
| Size inch. | 2¼ | 3 | 3¼ | 3½ | 3¾ | 4 | |
| Per doz. | 2.50 | 3.30 | 4.10 | 5.00 | 6 80 | 7 50 | |

Wholesale Only

Only Wholesale

## SHAFT BELLS.

| | | Per pair |
|---|---|---|
| No. **6,** | 2 Bells, Stamped Steel, Plated Bells | .40 |
| **7,** | 3 " " " " " | .75 |

| | | Per pair |
|---|---|---|
| No. **10,** | 2 Bells, Cast Metal, Nickel Plated | .9 |
| **11,** | 3 " " " " " | 1.0 |

| | | Per pair |
|---|---|---|
| No. **96,** | 4 Bells, Stamped Steel, Plated Bells | 1.15 |

| | | Per pair |
|---|---|---|
| No. **99,** | 4 Bells, Cast Metal, Nickel Plated, Tuned to Octaves. | 3.8 |

| | | Per pair |
|---|---|---|
| No. **14,** | 4 Bells, Cast Metal Bells, Plated, Harmonized | 2.50 |

| | | Per pair |
|---|---|---|
| No. **16,** | 4 Bells, Cast Metal Bells, Nickel Plated, Harmonized | 3.0 |

## YORK EYE TEAM BELLS.

Cast, Brass York Eye, Team.

| | | | Rough | Polished |
|---|---|---|---|---|
| No. **1,** | 2¾ | in. Dia | 3.99 | 4.40 |
| **2,** | 4 | " | 4 40 | 5 00 |
| **3,** | 4¼ | " | 5 00 | 5 80 |
| **4,** | 3½ | " | 6.99 | 7.50 |
| **5,** | 4 | " | 8 70 | |

## STAMPED STEEL BELLS.

| | | | Per Dozen |
|---|---|---|---|
| No. **500,** | Copper Plated | 3¾ in. Dia | 2 10 |
| " | Nickel " | 3¾ " | 2 40 |

## STRAPPED COLLAR BELLS.

| | | Per dozen |
|---|---|---|
| No **101,** | Open Bells, 2¾ in Dia | 1 20 |

We Ship Promptly

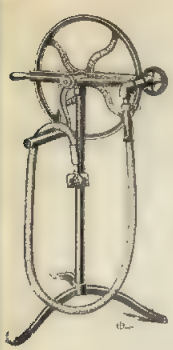
For Skates and Hockey Pucks, see our Hardware Catalogue.

Our Prices are Right.

## HORSE CLIPPERS AND SINGERS.

**1902—The New Chicago Horse 1902 Clipping Machine.**

No Belts to Slip. Positive power. It has a rigid base, tubular upright, and a fine strong crank handle.



All Gearing cut from solid Metal, (not cast)

Price Complete..... Each 24 00.

**"STEWART'S PATENT"**

| | Each |
|---|---|
| Price of New Chicago Knife and Handle complete | 11.50 |
| Price without handle | 6.30 |
| " Handle only | 5.00 |
| " Top Plate | 2.50 |
| " Bottom Plate | 4.00 |

Driving Wheel 12 in. diameter.

## "20TH" CENTURY HORSE CLIPPERS.

**CLIPPED HORSES**

**Look Better—Feel Better—Work Better.**

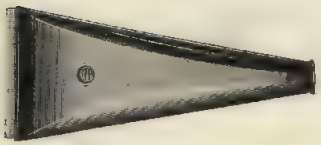
Costs but little more than a hand clipper and does 100 times the work. Surprisingly simple, strong and durable Weight only 15 pounds. They are packed in a small box 14x14x3.

This machine requires no experience to operate.

They are guaranteed to clip as fast as any machine made, regardless of price.

Price Complete..... 10.80 each.

### HORSE SINGERS.



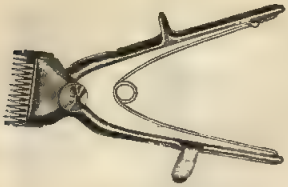
| | Doz. |
|---|---|
| "Eclipse" 4 inch wick | 1 10 |
| No. **156.** 5 " " as cut | 8.40 |

| | Doz. |
|---|---|
| No. **160.** 5 inch wick (as cut) | 13 20 |
| No. **162.** 5 " " with Stop Cock | 21.00 |

**PLEASE NOTE.** **"Standard Brooms,"** Page 476 of our No. 13 Catalogue should read :—

| | |
|---|---|
| No. **252,** Size, 8, 4 strings | 7 20 per dozen |
| 7, 4 " | 6 70 " |
| 6, 3 " | 6.20 " |

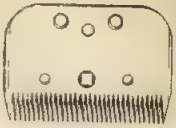
## HORSE CLIPPERS.



**Fetlock Clippers.**

| | Each |
|---|---|
| No. 61, Full Polished, Coarse Teeth | 2.50 |

Top Plate.



Bottom Plate.

**Parts for Horse Clippers.**

| | E. |
|---|---|
| Boker's Top Plates | |
| " Bottom Plates | |
| Bown's Top Plates | 1. |
| " Bottom Plates | 1 |

## HORSE CLIPPERS.

(Henry Boker.)

| | Each |
|---|---|
| "Keen Cut" Horse Clippers | 1.70 |
| "Perfection" " " | 2.30 |
| No. 1704, Ball Bearing " | 2.45 |

(W. Bown English.)

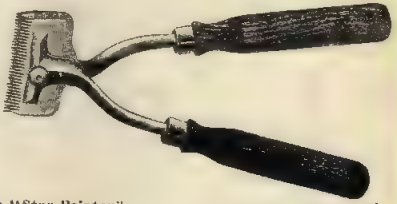
| | E. |
|---|---|
| Bown's "Newmarket" Horse Clippers | 2. |

## AMERICAN HORSE CLIPPERS.

Herman Boker.)

**"Empire State"** per pair 1.50

It is the best low priced Horse Clipper in the market. It is constructed on the same principle as the better Clipper has guide lugs and angle tension bolt not found in any other low price Clipper.

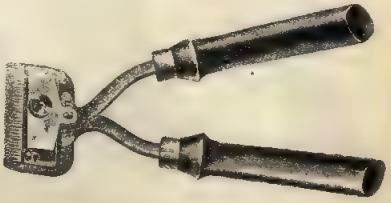


**The "Star Pointer"** per pair 2.

One of the most popular and one of the most saleable Horse Clippers in the market. Full Nickel finish and finely polished Rosewood Screw Handles.

**"National Newmarket"** per pair 2.40

The Newmarket pattern is the best known Clipper on the market, is the strongest and most perfect Clipper made. Full Nickel Plated, with fine Rosewood finish handles.



**The "IXL. Ball Bearing"** per pair 3.

Anti Friction Ball Bearing Horse Clippers. The best finished and best working Clipper in the market. Full Nickel Plated, with fine rosewood oval Handles.

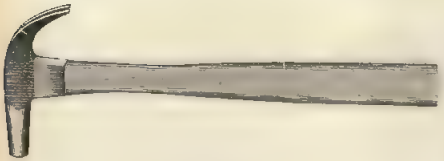
Our Prices are Right

One in a box.

Letter Orders Solicited

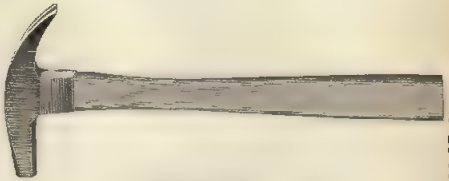
# FARRIERS' HAMMERS.

## WHITMAN AND BARNES'.



Solid Cast Steel, Hickory Handles
Round Poll

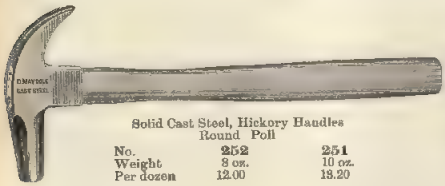
| No. | 6, Plain Eye | 5, Adze Eye |
|---|---|---|
| Weight | 7 oz. | 9 oz. |
| Per dozen | 6.70 | 8.30 |



Solid Cast Steel, Hickory Handles
Octagon Poll

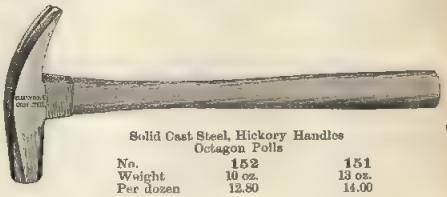
| No. | 7 |
|---|---|
| Weight | 9 oz. |
| Per dozen | 8.30 |

## DAVID MAYDOLE & CO.'S



Solid Cast Steel, Hickory Handles
Round Poll

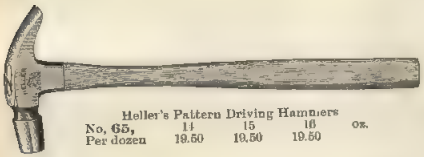
| No. | 252 | 251 |
|---|---|---|
| Weight | 8 oz. | 10 oz. |
| Per dozen | 12.00 | 13.20 |



Solid Cast Steel, Hickory Handles
Octagon Polls

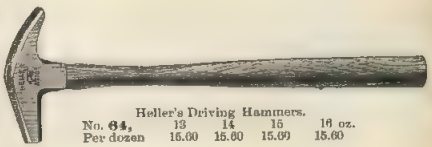
| No. | 152 | 151 |
|---|---|---|
| Weight | 10 oz. | 13 oz. |
| Per dozen | 12.80 | 14.00 |

## HELLER BROS.



Heller's Pattern Driving Hammers

| No. 65, | 14 | 15 | 16 | oz. |
|---|---|---|---|---|
| Per dozen | 19.50 | 19.50 | 19.50 | |

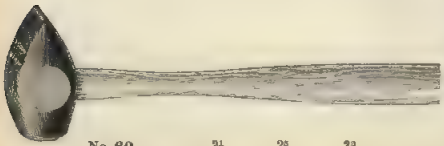


Heller's Driving Hammers.

| No. 64, | 13 | 14 | 15 | 16 oz. |
|---|---|---|---|---|
| Per dozen | 15.00 | 15.00 | 15.00 | 15.00 |

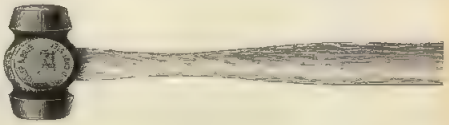
All above Half dozen in a box.

## HELLER'S CAT'S HEAD OR TURNING HAMMERS



| No. 60, | 2¼ | 2⅜ | 2½ |
|---|---|---|---|
| Per dozen..... | $7.45 | $7.45 | $7.45 |

## HELLER'S ROUNDING



| No. 61, | 2⅜ | 2¼ | 2⅛ |
|---|---|---|---|
| Per dozen..... | $7.45 | $7.45 | $7.45 |

Quarter dozen in a box.

H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

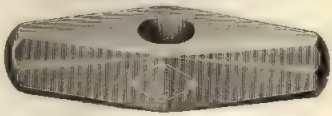
H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

# HAMMERS.

## CAST IRON SLEDGE MAULS.

| Weight, pounds | 10 | 12 | 15 |
|---|---|---|---|
| Per pound | .05½ | .06½ | .05½ |

## NAPPING HAMMERS.



Solid Cast Steel, Oil Finish.

| Weight, pounds | 1¼ | 1½ | 1¾ | 2 |
|---|---|---|---|---|
| Per pound | .25 | .25 | .25 | .25 |

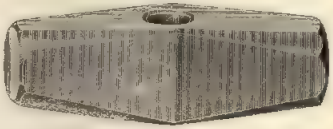
## BLACKSMITHS' SLEDGES.

Cross Pein.

Solid Steel, Oil Finish, Polished Face and Pein.

| Weight, pounds | 4 | 5 | 6 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|
| Per pound | .17½ | .17½ | .14½ | 14½ | .14½ | .14½ | .14½ | .14½ |

## DOUBLE FACE STRIKING HAMMERS.



Solid Steel, Oil Finish, Polished Faces.

| Weight, pounds | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|
| Per pound | .17 | .17 | .17 | .14½ | .14½ | .14½ | .14½ | .14½ |

## STONE SLEDGES.

Solid Steel, Oil Finish, Polished Face.

| Weight, pounds | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|---|---|
| Per pound | .14½ | .14½ | .14½ | .14½ | .14½ | .14½ | .14½ |

## MASONS HAMMERS.

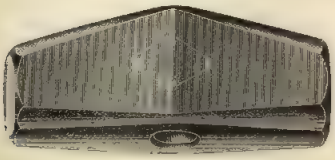
Solid Cast Steel, Polished Face.

| Weight, pounds | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 15 and larger |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Per pound | .20 | .20 | .20 | 18 | .18 | .18 | .18 | .18 | 18 | .18 | |

**Mitred.**

| Weight, pounds | 5 | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 15 and larger |
|---|---|---|---|---|---|---|---|---|---|
| Per pound | .34 | .34 | .34 | .34 | .34 | .34 | .34 | .34 | 34 |

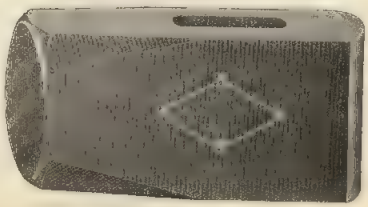
## HAND-DRILLING OR STONECUTTERS' HAMMERS.



Solid Steel, Oil Finish, Polished Face.

| Weight, pounds | 3 | 3½ | 4 | 4½ | 5 |
|---|---|---|---|---|---|
| Per pound | .31 | .31 | .31 | .31 | .31 |

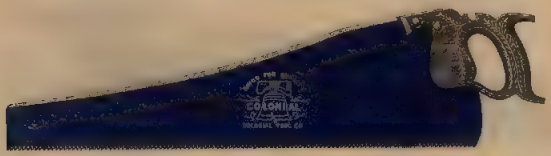
## DRILL SHARPENING HAMMERS.



**Whitman & Barnes.**

No. 202, Cat's Head Drill Sharpening Hammer, a/s 2 to 3 lbs . . . . . per lb. .36

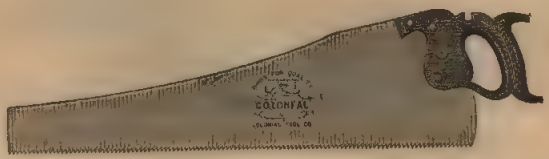
# Hand, Rip and Panel Saws.




**Colonial, Blued Blade.**

Refined Spring Steel, Blued Finish, Selected Blade, Tempered, Applewood Handle, Carved and Polished, 4 Nickel Plated Screws.

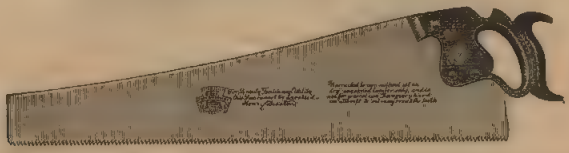
| | Rip. | | Hand. | | Panel. | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Length, In., | 28 | 26 | 28 | 26 | 24 | 22 | 20 | 18 | 16 |
| Code. | Feoffing | Fepasters | Ferberite | Ferculo | Ferdwit | Fernail | Fernarle | Fernassi | Fernata |
| Points to In., | 4 to 6 | 4 to 6 | 6 to 8 | 6 to 12 | 8 to 12 | 8 to 12 | 9 to 12 | 9 to 12 | 9 to 12 |
| Weight Per Dozen, lbs., | 31 | 28 | 31 | 28 | 22 | 20 | 18 | 16 | 15 |
| Per Dozen, | $28.50 | 25.50 | 28.50 | 25.50 | 23.50 | 22.00 | 20.00 | 18.25 | 16.75 |




**Colonial, Bright Blade.**

Refined Spring Steel, Selected and Polished Blade, Tempered, Applewood Handle, Carved and Polished, 4 Brass Screws.

| | Rip. | | Hand. | | Panel. | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Length, In., | 28 | 26 | 28 | 26 | 24 | 22 | 20 | 18 | 16 |
| Code. | Fermillet | Fermotio | Fermoor | Fernando | Fernbilck | Fernglas | Fernher | Fernshaw | Fernsicht |
| Points to In., | 4 to 6 | 4 to 6 | 6 to 8 | 6 to 12 | 8 to 12 | 8 to 12 | 9 to 12 | 9 to 12 | 9 to 12 |
| Weight Per Dozen, lbs., | 31 | 28 | 31 | 28 | 22 | 20 | 18 | 16 | 15 |
| Per Dozen, | $25.50 | 22.50 | 25.50 | 22.50 | 21.50 | 20.00 | 18.00 | 16.25 | 14.75 |



Extra Refined London Spring Steel, Selected and Highly Polished Blade, Tempered, Applewood Handle, Carved and Polished. 5 Brass Screws.

| | | Rip. | Hand. |
|---|---|---|---|
| No. 120 Disston's, | Length, In., | 28 | 26 |
| | Code. | Ferraria | Ferrattilis |
| | Points to In., | 4½ to 6 | 6 to 12 |
| | Weight Per Dozen, lbs., | 31 | 28 |
| | Per Dozen, | $36.00 | 32.00 |

All Packed One-Third Dozen in a Box.

SCHWABACHER HARDWARE CO.

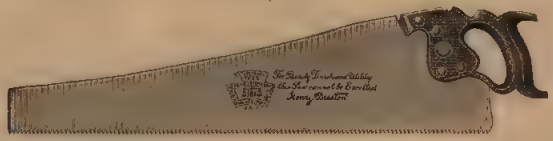
# Hand, Rip and Panel Saws.

Extra Refined London Spring Steel, Selected and Highly Polished Blade, Apple Handle, Carved and Polished, 4 Brass Screws.

| | | Rip. | Hand. | Panel. | | | |
|---|---|---|---|---|---|---|---|
| No. 12—Disston's, | Length, In., | 28 | 26 | 24 | 22 | 20 | 18 |
| | Code, | Ferrenho | Ferretier | Ferriage | Ferrigno | Ferrolho | Ferrella |
| | Points to In., | 4½ to 6 | 6 to 12 | 8 to 12 | 8 to 12 | 9 to 12 | 9 to 12 |
| | Weight Per Dozen, lbs., | 31 | 28 | 26 | 24 | 22 | 19 |
| | Per Dozen, | $33.00 | 29.00 | 27.00 | 25.00 | 23.00 | 20.75 |

Spring Steel Blade, Patent Ground and Tempered, Highly Polished, Apple Handle, Carved and Polished, 4 Brass Screws.

| | | Rip. | Hand. |
|---|---|---|---|
| No. 112—Disston's, | Length, In., | 28 | 26 |
| | Code, | Ferryboat | Fertiault |
| | Points to In., | 4½ to 6 | 6 to 12 |
| | Weight Per Dozen, lbs., | 31 | 28 |
| | Per Dozen, | $34.00 | 30.00 |



Spring Steel Blade, Patent Ground and Tempered, Highly Polished, Apple Handle, Polished Edges, 5 Brass Screws.

| | | Rip. | | | Hand. | | |
|---|---|---|---|---|---|---|---|
| No. D8—Disston's, | Length, In., | 30 | 28 | 26 | 30 | 28 | 26 |
| | Code, | Fervently | Fervorent | Fervidity | Fervilla | Fervura | Fesapo |
| | Points to In., | 4½ to 6 | 5 to 6½ | 5 to 6 | 6 to 7 | 6 to 8 | 6 to 12 |
| | Weight Per Dozen, lbs., | 34 | 31 | 28 | 34 | 31 | 28 |
| | Per Dozen, | $28.50 | 25.50 | 22.50 | 28.50 | 25.50 | 22.50 |

| | | Panel. | | | | |
|---|---|---|---|---|---|---|
| No. D8—Disston's, | Length, In., | 24 | 22 | 20 | 18 | 16 |
| | Code, | Fescina | Fesellos | Fesseln | Fesulos | Festally |
| | Points to In., | 8 to 12 | 8 to 12 | 9 to 12 | 9 to 12 | 9 to 12 |
| | Weight Per Dozen, lbs., | 26 | 24 | 22 | 19 | 17 |
| | Per Dozen, | $21.50 | 20.00 | 18.00 | 16.25 | 14.75 |

All Packed One-Third Dozen in a Box.

# Razors.

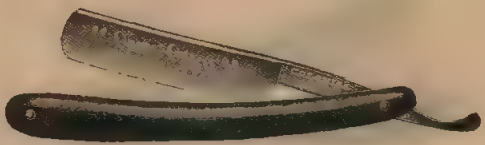
**Colonial.**

| | Per Dozen |
|---|---|
| No. 1511SP ⅞ In. Square Point Blade, Three-Quarter Concave, Fancy Gimped Tang, White Celluloid Handle, | $40.00 |
| No. 1511HP ⅞ In. Hollow Point Blade, Three-Quarter Concave, Fancy Gimped Tang, White Celluloid Handle, | 40.00 |

Half Dozen in a Box.

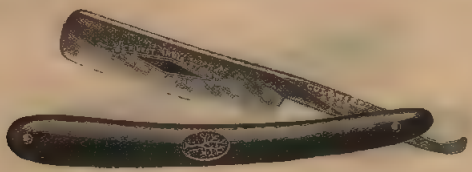
| | Per Dozen |
|---|---|
| No. 1685—½ In. Round Point Blade, Half Concave, Black Rubber Handle, | $24.00 |

Half Dozen in a Box.



| | Per Dozen |
|---|---|
| No. 1061—¾ In. Round Point Blade, Half Concave, Black Rubber Handle, | $16.00 |
| No. 1062—¾ In. Round Point Blade, Half Concave, Black Rubber Handle, | 16.00 |

Half Dozen in a Box.



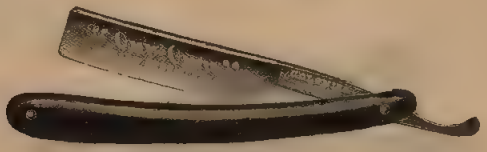
| | Per Dozen |
|---|---|
| No. 1101 ⅝ In. Round Point Blade, Half Concave, Black Rubber Handle, | $20.00 |

Half Dozen in a Box.

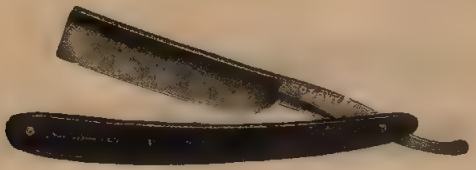
# Razors.

**Colonial.**

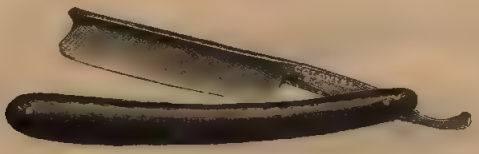
No. 346—⅝ In. Square Point Blade, Full Concave, Black Rubber Handle, . . . . . Per Dozen $30.00
Half Dozen in a Box.



No. 226 ⅝ In. Square Point Blade, Half Concave, Black Rubber Handle, . . Per Dozen $16.00
Half Dozen in a Box.

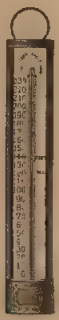


No. 1381 ⅝ In. Square Point Blade, One-Quarter Concave, Flat Black Rubber Handle, . . Per Dozen $13.00
Half Dozen in a Box.



No. 386 -⅝ In. Hollow Point Blade, One-Eighth Concave, Black Rubber Handle, . . . . Per Dozen $11.50
Half Dozen in a Box.

# Thermometers.



**Hop.**

Japanned Tin Case, Silvered Metal Scale, Graduated 0 to 270°, Mercury Ruby Back Tube.

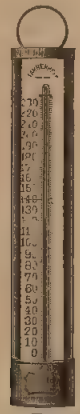
| Nos., | 44AH | 45AH |
|---|---|---|
| Code, | Learn | Learned |
| Length, In., | 10 | 12 |
| Weight Per Dozen, lbs., | 4½ | 5½ |
| Per Dozen, | $7.50 | 10.50 |

Half Dozen in a Box.

**Pocket.**

Code Lebban — Per Dozen

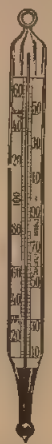
No. 909—6 In. All Glass Minimum Self-Registering, Magnifying Spirit Tube, Scale Graduated on the Tube to 70° Below Zero, Mounted in Screw Cap Hard Rubber Case, . . . . . $24.00
Weight 1 lb. Per Dozen.



**Marine Engineers'.**

Code Lebbiger — Per Dozen

No. 982 10 In. Mercury Tube, Graduated 0 to 220°, Planished Copper Case, Silvered Metal Scale, . . . . . $27.00
Weight 8 lbs. Per Dozen.



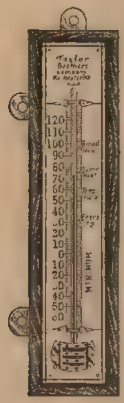
**Floating Dairy.**

Code Lebeche — Per Dozen

No. 824—8 In. Easy Reading Glass, Mercury Tube, Shot Weighted, . . . $2.50
Weight 1 lb. Per Dozen.

# Thermometers.





Code Lanrchi — Per Dozen

**No. 664H**—12 In. Spirit Tube, Graduated 80° Below to 120° Above, Hardwood Back, Black Oxidized Metal Scale, with White Figures, with Indicator Needle to Show Coldest Point Reached, Weight 9 lbs. Per Dozen. $24.00

Half Dozen in a Box.

**Japanned Tin Case, Lithographed Metal Scale, Mercury Tube, Graduated from 40° Below to 120° Above.**

| Nos., | 2D | 3D |
|---|---|---|
| Code, | Lasni | Leachie |
| Length, In., | 8 | 10 |
| Weight Per Dozen, lbs., | 2 | 3 |
| Per Dozen, | $2.50 | 3.50 |

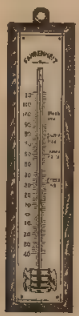
Code Leandre — Per Dozen

**No. 9**—10 In. Spirit Tube, Graduated 80° Below to 120° Above, Japanned Tin Case, Silvered Metal Scale, $8.80

Weight 4 lbs. Per Dozen.

Half Dozen in a Box.

In ordering Thermometers for cold climates care should be taken to order with spirit tube as mercury freezes at 38° below zero.



Code Leadwort — Per Dozen

**No. 1101**—8 In. Mercury Tube, Graduated 40° Below to 120° Above, Hardwood Back, Silvered Metal Scale, Guarded Bulb, $ 6.00

Weight 4 lbs. Per Dozen.

Code Leafage — Per Dozen

**No. 1221H**—8 In. Mercury Tube, Graduated 40° Below to 120° Above, Hardwood Back, Black Oxidized Metal Scale, with White Figures, $12.00

Weight 4 lbs. Per Dozen.

Half Dozen in a Box.

# Horse Shoes.

**Burden's Easy, Iron.**

**Front.**

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Weight Each, Oz., | 11 | 14 | 18 | 20 | 20 | 27 |
| Per Keg, | $.... | .... | .... | .... | .... | .... |

**Hind.**

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Weight Each, Oz., | 10 | 13 | 15 | 18 | 21 | 25 |
| Per Keg, | $.... | .... | .... | .... | .... | .... |

These Shoes can also be used as Snow or Roadster Shoes.

**Burden's Iron.**

**Light Front.**

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Weight Each, Oz., | 14 | 17 | 21 | 25 | 30 | 35 | 39 |
| Per Keg, | $.... | .... | .... | .... | .... | .... | .... |

**Light Hind.**

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Weight Each, Oz., | 12 | 14 | 18 | 22 | 27 | 31 | 35 |
| Per Keg, | $.... | .... | .... | .... | .... | .... | .... |

**Medium Front.**

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Weight Each, Oz., | 17 | 20 | 25 | 29 | 35 | 42 | 49 |
| Per Keg, | $.... | .... | .... | .... | .... | .... | .... |

**Medium Hind.**

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Weight Each, Oz., | 14 | 16 | 20 | 24 | 29 | 34 | 38 |
| Per Keg, | $.... | .... | .... | .... | .... | .... | .... |

One Hundred Pounds in a Keg, as Follows: Fore Shoes, Each Size Separate; Hind Shoes, Each Size Separate

Fore and Hind Shoes, Each Size Separate and Assorted, Nos. 1, 2 and 3; 2, 3 and 4; 3, 4 and 5; 4, 5 and 6

# Horse Shoes.

**Juniata, Steel, Light.**

**Front.**

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Weight Each, Oz., | 14 | 17 | 20 | 25 | 29 | 36 | 42 |
| Per Keg, $ | .... | .... | .... | .... | .... | .... | .... |

**Hind.**

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Weight Each, Oz., | 11 | 14 | 18 | 22 | 27 | 31 | 35 |
| Per Keg, $ | .... | .... | .... | .... | .... | .... | .... |

**Juniata, Iron, Snow or Roadster.**

**Front.**

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Weight Each, Oz., | 11 | 14 | 17 | 21 | 24 | 29 | 33 |
| Per Keg, $ | .... | .... | .... | .... | .... | .... | .... |

**Hind.**

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Weight Each, Oz., | 9 | 11 | 15 | 18 | 21 | 25 | 29 |
| Per Keg, $ | | | | .... | | | .... |

One Hundred Pounds in a Keg, as Follows. Fore Shoes, Each Size Separate; Hind Shoes, Each Size Separate

Fore and Hind Shoes, Each Size Separate and Assorted Nos. 1, 2 and 3; 2, 3 and 4; 3, 4 and 5; 4, 5 and 6.

# Horse Shoe Nails.

**Star, Patent Finish.**

**Small Head.**

| Nos. | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|
| Per Pound, | $0 50 | .26 | .23 | .21 | 20 | .19 | .18 |

**Large Head.**

| Nos. | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|
| Per Pound, | $0 50 | 26 | 23 | .21 | 20 | .19 | .18 |

**Ausable, Hot Forged, Hammer Finish.**

**Small Head.**

| Nos. | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|
| Per Pound, | $0 31 | .28 | .26 | .25 | .24 | .23 |

**Large Head.**

| Nos. | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|
| Per Pound, | $0.31 | .28 | .26 | 25 | 24 | .23 |

**Ajax, Large Head.**

| Nos. | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|
| Per Pound, | $0 26 | .23 | .21 | 20 | .19 | .18 |

Five Pounds in a Package: Twenty Five Pounds in a Box

# Toe Calks.

**Juniata, Steel, Medium Pattern.**

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Size, Inches, | $1\frac{1}{2}$x$\frac{1}{2}$x$\frac{7}{16}$ | $1\frac{5}{8}$x$\frac{5}{8}$x$\frac{1}{2}$ | 2x$\frac{5}{8}$x$\frac{1}{2}$ | $2\frac{1}{2}$x$\frac{5}{8}$x$\frac{9}{16}$ | $2\frac{1}{2}$x$\frac{5}{8}$x$\frac{7}{16}$ | $2\frac{5}{8}$x$\frac{1}{2}$x$\frac{1}{2}$ |
| Per Pound, | $0 09 | .09 | .09 | .09 | 09 | .09 |

Twenty Five Pounds in a Box.

# Lawn Mowers.

### F and N, Ball Bearing.

With 5 Revolving Cutters, Crucible Steel, Open Cylinder, Highest Quality Ball Bearings, 9½ In. Drive Wheels, Wheels, Side Plates, Cutter Bar, Shrub Guard and all other parts perfectly Machined, nicely Finished and Bronzed.

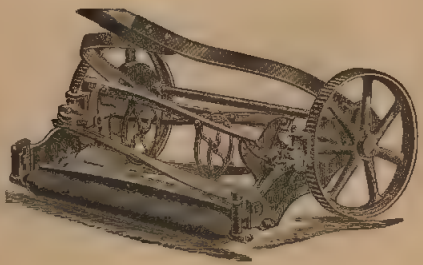
| Cut, In., | 14 | 16 | 18 | 20 |
|---|---|---|---|---|
| Code, | Glyphic | Glypho | Glyptica | Glyptique |
| Wt. Each, lbs., | 55 | 56 | 59 | 62 |
| Each, | $17.00 | 19.00 | 21.00 | 23.00 |

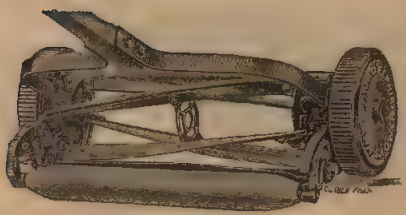
SCHWABACHER HARDWARE CO.

### Philadelphia, Style E, High Wheel.

With 4 Revolving Cutters, Crucible Steel, Open Cylinder, Plain Bearings, Triple Gear, 10½ In. Drive Wheels, Wheels, Side Plates, Cutter Bar, Shrub Guard and all other parts nicely Machined and Finished.

| Cut, In., | 15 | 17 | 19 | 21 |
|---|---|---|---|---|
| Code, | Gnagnera | Gnaphale | Gnaptor | Gnarigant |
| Wt. Each, lbs., | 75 | 77 | 79 | 82 |
| Each, | $25.00 | 28.00 | 31.00 | 34.00 |





### Philadelphia, Style S, Open Cylinder.

With 4 Revolving Cutters, Crucible Steel, Open Cylinder, Plain Bearings, Single Pinion, Geared on both Sides, 7 In. Drive Wheels, all parts nicely Finished and Painted.

| Cut, In., | 12 | 14 | 16 | 18 |
|---|---|---|---|---|
| Code, | Gnashed | Gnathonic | Gnatling | Gnaviter |
| Wt. Each, lbs., | 43 | 45 | 48 | 52 |
| Each, | $15.00 | 17.00 | 19.00 | 21.00 |

# Lawn Mowers.

### Auto, Ball Bearing.

With 4 Revolving Cutters, Crucible Steel, Open Cylinder, Highest Quality Ball Bearings, 10 In. Drive Wheels, Wheels, Side Plates, Cutter Bar, Shrub Guard and all other parts nicely fitted and painted.

| Cut, In., | 14 | 16 | 18 |
|---|---|---|---|
| Code, | Gnawing | Gneissic | Gnides |
| Weight Each, lbs., | 59 | 61 | 64 |
| Each, | $9.00 | 10.00 | 11.00 |

SCHWABACHER HARDWARE CO.

### Superba, Ball Bearing.

With 4 Revolving Cutters, Crucible Steel, Open Cylinder, Ball Bearings, 8½ In. Drive Wheels, Wheels, Side Plates, Cutter Bar, Shrub Guard and other parts nicely fitted and painted.

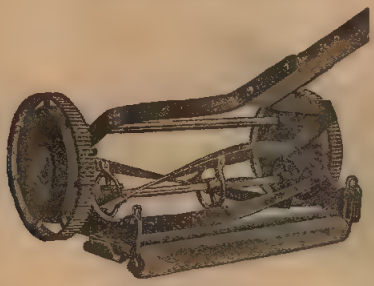
| Cut, In., | 12 | 14 | 16 | 18 |
|---|---|---|---|---|
| Code, | Gnobbles | Gnognote | Gnome | Gnomical |
| Wt. Each, lbs., | 49 | 52 | 56 | 58 |
| Each, | $6.50 | 7.00 | 7.50 | 8.00 |

### Queen City, High Wheel.

With 3 Revolving Cutters, Tempered Steel, Open Spoke Rim, 9 In. Drive Wheels, Wheels, Side Plates, Cutter Bar and Guard all nicely fitted and painted.

| Cut, In., | 14 | 16 | 18 |
|---|---|---|---|
| Code, | Gnomonic | Gnophos | Gnoso |
| Weight Each, lbs., | 49 | 50 | 52 |
| Each, | $6.50 | 7.00 | 7.50 |

# Lawn Mowers.

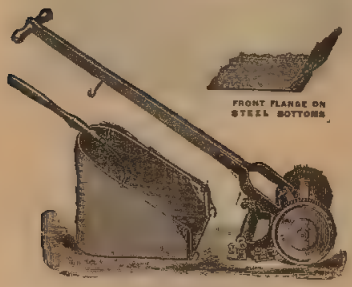


**Baby Grand.**

With 3 Revolving Cutters, Crucible Steel, Open Spoke Rim, 8 In. Drive Wheels; Wheels, Side Plates, Cutter Bars and Guard all nicely fitted and finished.

| Cut, In., | 12 | 14 | 16 | 18 |
|---|---|---|---|---|
| Code, | Gozrazel | Goath | Goathered | Goatishly |
| Weight Each, lbs., | 37 | 38 | 40 | 43 |
| Each, | $4.50 | 5.00 | 5.50 | 6.00 |

# Grass Catchers.




**Easy Empty.**

Code Gobelet — Per Dozen

**No. 1** Adjustable to 12, 14, 16 and 18 In. Mowers, Heavy Canvas Sides and Bottom, Well Wired, . . . . $16.00
Weight 38 lbs. Per Dozen.

Code Gobelina

**No. 1G**—Adjustable to 12, 14, 16 and 18 In. Mowers, Heavy Galvanized Iron Bottom, Well Wired, . . . . 20.00
Weight 45 lbs. Per Dozen.

**Simplex Adjustable.**

Code Gobernar — Per Dozen

**No. 10**—Adjustable to 12, 14 and 16 In. Mowers, Canvas Sides, Galvanized Iron Bottom, . . . . $15.00
Weight 54 lbs. Per Dozen.

Code Goberont

**No. 20** Adjustable to 16, 18 and 20 In. Mowers, Canvas Sides, Galvanized Iron Bottom, . . . . 18.00
Weight 61 lbs. Per Dozen.

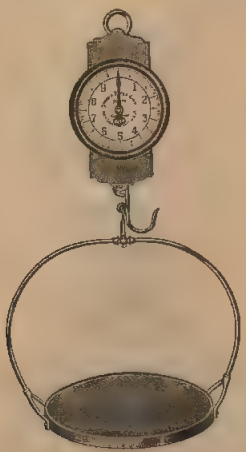
# Spring Balances.

SCHWABACHER HARDWARE CO.

Code Knabbling — Each

No. 143—Capacity 30 lbs. by 1 Oz., Brass Front, 5 In. Dial, 13 In. Heavy Brass Pan, Brass Bows with Swivel, . . . . . $10.00

Weight 7 lbs. Each.



**13 In. Brass Pan, Brass Front and Dial, Brass Bows and Swivel.**

Code Knabens — Each

No. 410P Capacity 30 lbs. by 1 Oz., . $16.00

Weight 8½ lbs. Each.

One in a Box.

**15 In. Porcelain Enameled Pan, Large Double Dial, Nickel Plated Bows and Trimmings.**

Code Knockst — Each

No. 0030EXD - Capacity 30 lbs. by 1 Oz., . $17.50

Weight 9½ lbs. Each.

Code Knaeblem

No. 0060EXD—Capacity 60 lbs. by 1 Oz., . 18.50

Weight 9½ lbs. Each.

# Spring Balances.

**Excelsior Tubular Ice Balances, with Hooks.**
These Scales have Dials or Faces on Both Sides so Weight may be Seen from Either Side.

Code Klungels
**No. 502**—Capacity 200 lbs. by 5 lbs., Weight 60 lbs. Per Dozen. . . . . Per Dozen $66.00

Code Klurren
**No. 503**—Capacity 300 lbs. by 5 lbs., Weight 60 lbs. Per Dozen. . . . . 72.00

Code Klutrad
**No. 504**—Capacity 400 lbs. by 5 lbs., Weight 60 lbs. Per Dozen. . . . . 84.00

One in a Box.

**With Round Tin Dish and Hook.**

Code Klutsen
**No. 52**—Capacity 25 lbs. by ½ lbs., 9 In. Dish, Weight 12 lbs. Per Dozen. Per Dozen $4.00

Code Knasp
**No. 53**—Capacity 50 lbs. by ½ lbs., 9 In. Dial, Weight 15 lbs. Per Dozen. 6.00

Half Dozen in a Box.

**With Round Tin Dish.**

Code Knabbern
**No. 475** Capacity 24 lbs. by 1 Oz., Large Circular Dial, Nickel Plated, 11 In. Dish, Tinned Iron Bows, Weight 4½ lbs. Each Each $4.65

One in a Box.

# Spring Balances.

**Straight Brass Front, with Hook.**

| | Per Dozen |
|---|---|
| Code Klusver<br>No. 50—Light, Capacity 25 lbs. by ½ lbs.<br>Weight 4 lbs. Per Dozen. | $1.60 |
| Code Kluft<br>No. 51—Light, Capacity 50 lbs. by 1 lbs.,<br>Weight 7 lbs. Per Dozen. | 3.00 |

No. 50, One Dozen; No. 51, Half Dozen in a Box.

**Straight Brass Front, with Hook.**

| | Per Dozen |
|---|---|
| Code Klufthols<br>No. 81—Heavy, Capacity 25 lbs. by ½ lbs.,<br>Weight 6 lbs. Per Dozen. | $4.00 |
| Code Klughelt<br>No. 84—Extra Heavy, Capacity 50 lbs. by 1 lbs.,<br>Weight 20 lbs. Per Dozen. | 8.00 |
| Code Klugwitz<br>No. 87—Extra Heavy, Capacity 100 lbs. by 1 lbs.,<br>Weight 42 lbs. Per Dozen. | 42.00 |

No. 81, Half Dozen; Nos. 84 and 87, Quarter Dozen in a Box.

**Round, Japanned, with Hook.**

| | Per Dozen |
|---|---|
| Code Klunving<br>No. 273 Capacity 50 lbs. by ½ lbs.,<br>Weight 9 lbs. Per Dozen. | $10.00 |

Quarter Dozen in a Box.

# Spring Balances.

**Straight Brass Front, with Hook.**

| | Per Dozen |
|---|---|
| Code Klusver<br>No. 50—Light, Capacity 25 lbs. by ½ lbs.<br>Weight 4 lbs. Per Dozen. | $1.60 |
| Code Kluft<br>No. 51—Light, Capacity 50 lbs. by 1 lbs.,<br>Weight 7 lbs. Per Dozen. | 3.00 |

No. 50, One Dozen; No. 51, Half Dozen in a Box.

**Straight Brass Front, with Hook.**

| | Per Dozen |
|---|---|
| Code Klufthols<br>No. 81—Heavy, Capacity 25 lbs. by ½ lbs.,<br>Weight 6 lbs. Per Dozen. | $4.00 |
| Code Klughelt<br>No. 84—Extra Heavy, Capacity 50 lbs. by 1 lbs.,<br>Weight 20 lbs. Per Dozen. | 8.00 |
| Code Klugwitz<br>No. 87—Extra Heavy, Capacity 100 lbs. by 1 lbs.,<br>Weight 42 lbs. Per Dozen. | 42.00 |

No. 81, Half Dozen; Nos. 84 and 87, Quarter Dozen in a Box.

**Round, Japanned, with Hook.**

| | Per Dozen |
|---|---|
| Code Klunving<br>No. 273 Capacity 50 lbs. by ½ lbs.,<br>Weight 9 lbs. Per Dozen. | $10.00 |

Quarter Dozen in a Box.

# Spring Balances.

**Excelsior Tubular Ice Balances, with Hooks.**
These Scales have Dials or Faces on Both Sides so Weight may be Seen from Either Side.

Code Klungels
**No. 502**—Capacity 200 lbs. by 5 lbs., Weight 60 lbs. Per Dozen. . . . . Per Dozen $66.00

Code Klurren
**No. 503**—Capacity 300 lbs. by 5 lbs., Weight 60 lbs. Per Dozen. . . . . 72.00

Code Klutrad
**No. 504**—Capacity 400 lbs. by 5 lbs., Weight 60 lbs. Per Dozen. . . . . 84.00

One in a Box.

**With Round Tin Dish and Hook.**

Code Klutsen
**No. 52**—Capacity 25 lbs. by ½ lbs., 9 In. Dish, Weight 12 lbs. Per Dozen. Per Dozen $4.00

Code Knasp
**No. 53**—Capacity 50 lbs. by ½ lbs., 9 In. Dial, Weight 15 lbs. Per Dozen. 6.00

Half Dozen in a Box.

**With Round Tin Dish.**

Code Knabbern
**No. 475** Capacity 24 lbs. by 1 Oz., Large Circular Dial, Nickel Plated, 11 In. Dish, Tinned Iron Bows, Weight 4½ lbs. Each Each $4.65

One in a Box.

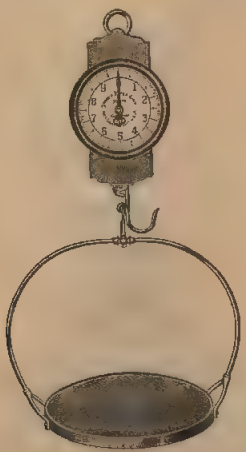
# Spring Balances.

SCHWABACHER HARDWARE CO.

Code Knabbling — Each

No. 143—Capacity 30 lbs. by 1 Oz., Brass Front, 5 In. Dial, 13 In. Heavy Brass Pan, Brass Bows with Swivel, . . . . . $10.00

Weight 7 lbs. Each.



**13 In. Brass Pan, Brass Front and Dial, Brass Bows and Swivel.**

Code Knabens — Each

No. 410P Capacity 30 lbs. by 1 Oz., . $16.00

Weight 8½ lbs. Each.

One in a Box.

**15 In. Porcelain Enameled Pan, Large Double Dial, Nickel Plated Bows and Trimmings.**

Code Knockst — Each

No. 0030EXD - Capacity 30 lbs. by 1 Oz., . $17.50

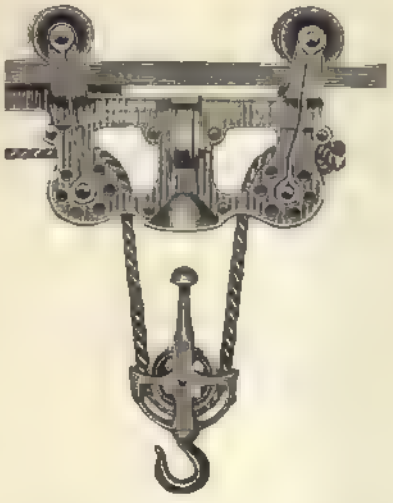
Weight 9½ lbs. Each.

Code Knaeblem

No. 0060EXD—Capacity 60 lbs. by 1 Oz., . 18.50

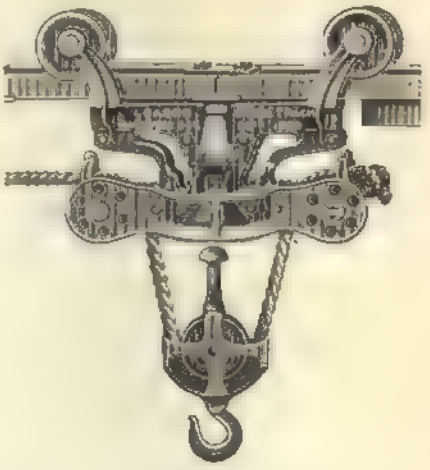
Weight 9½ lbs. Each.

# Hay Carriers.



**For Steel Track.**

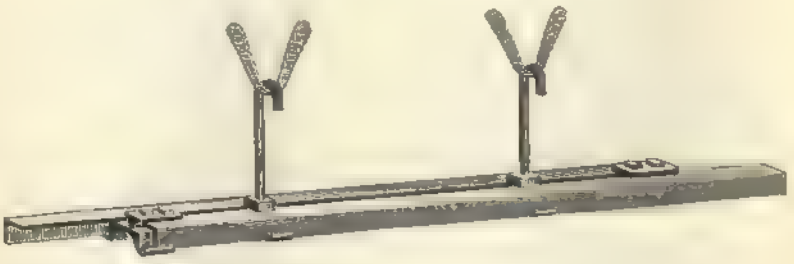
**No. 30** Leader Reversible Best Malleable Iron. Runs on Steel Track. . . . . Each $5.00



**For Steel Track.**

**No. 35**—Leader, Double Swivel, Best Malleable Iron. Runs on Steel Track. . Each $5.50

## Carrier Track and Hooks.



**No. 12**—Steel Track for Leader Hay Carriers, with Couplings and Bolts. Per Foot $0.18

**No. 012** Hanging Hooks, with Plate and Double Nuts for Steel Track, . Per Dozen $1.30

## Rafter Brackets.

**No. 7**—Malleable Iron, . . . . . Per Dozen. $0.70

## Rafter Grapples.

**No. 8**—Cast Steel, . . . . . Per Dozen $8.00

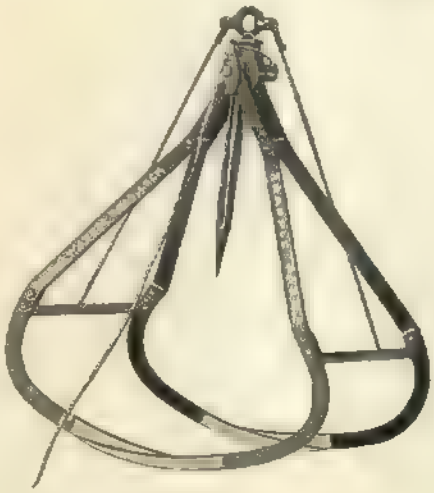
# Harpoon Hay Forks.

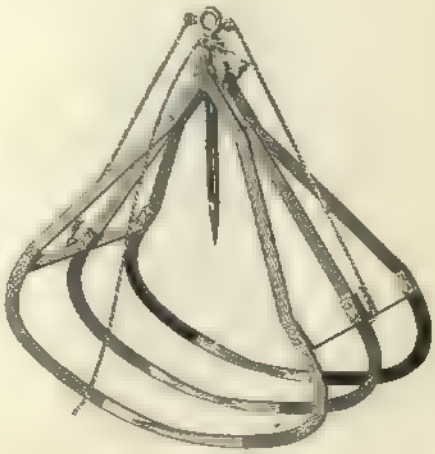
Milwaukee.

Milwaukee.

| | Each |
|---|---|
| **No. 1**—Double Harpoon Fork. 17 in. Wide. 24 in. from Bar to Point. . . . . | $1 50 |
| **No. 1½**—Double Harpoon Fork. 17 in. Wide. 31 in from Bar to Point. . . . . | 1.80 |
| **No. 2**—Single Harpoon Fork. | Each. $2 50 |

# Grapple Hay Forks.





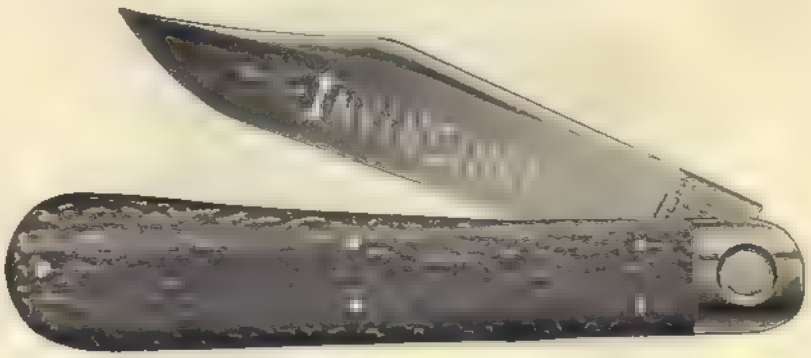
| | Each |
|---|---|
| **No. 4**—Four Tines, Deadlock Grapple Fork. . | $6.50 |
| **No. 6**—Six Tines, Deadlock, Grapple Fork. | Each $8 00 |

# Wagon Slings.

| | Each. |
|---|---|
| **No. 14**—Four Spreader Wagon Sling, including Ropes and Irons, Adjustable for Any Size Wagon. . . | $3.00 |

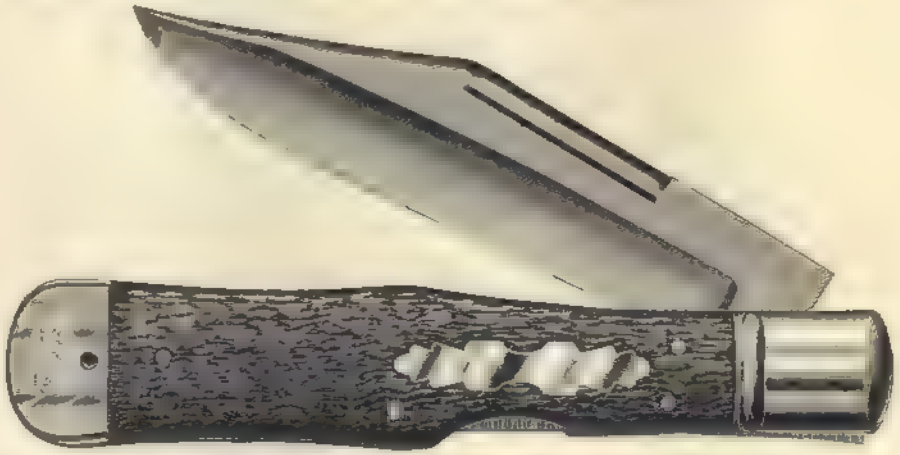
An outfit should have 1 Sling Pulley and 3 Wagon Slings to take off entire load in three lots.

# Hunting Knives.



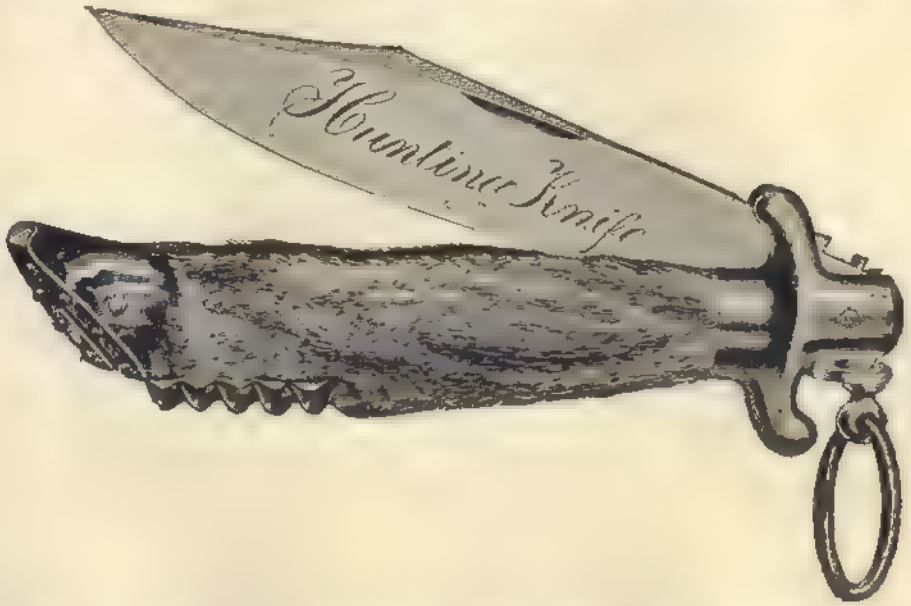
Per Dozen

No. 1000—4 in. Blade, Stag Handle, Steel Lined, Push Button Lock, . . . . . $15.00
No. 1005 4 in Blade, Stag Handle, Steel Lined, Push Button Lock, with Guard. . 17 00



Per Dozen

No. 187—4½ in Blade, Stag Handle, Brass Lined, Nickel Silver Bolsters, with Spring Lock Back. . . $24.00



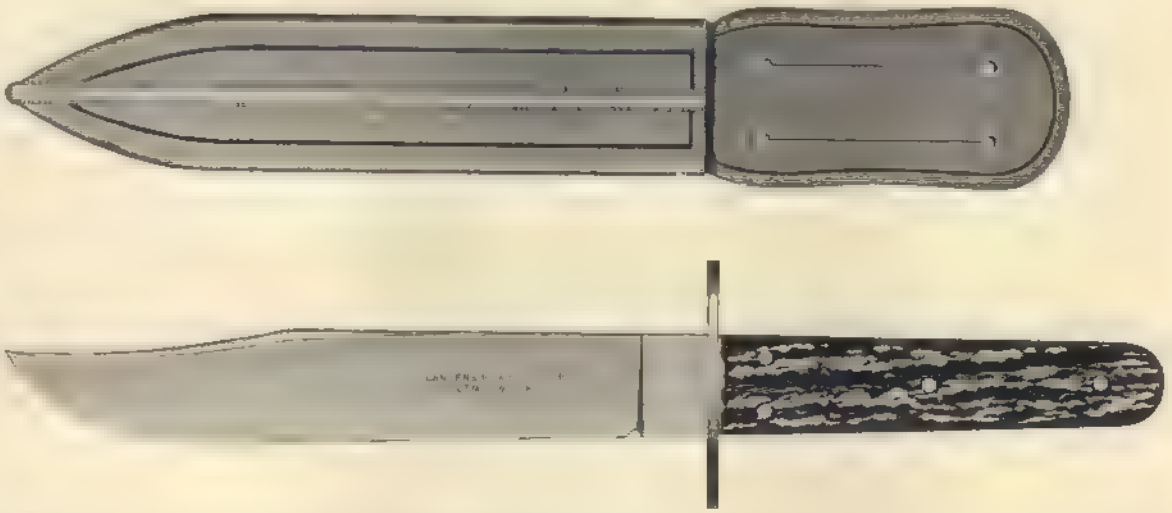

Per Dozen

No. 6923—4¾ in. Blade, Deer Foot Handle, with Cork Screw, German Silver Guard, Bolster and Cap . $32 00

# Hunting Knives.

Per Dozen

**No. 1** Marble's Ideal, 6 in Razor Steel Blade, Hollow Ground, Laminated Leather Handle, Buckhorn Butt, with Finely Finished Leather Sheath. . . . . $30.00



**No. 265**—6 in Cast Steel Blade, Stag Handle, Nickel Silver Guard, with Leather Sheath.

Per Dozen. . $15.00

# Hunting Axes.

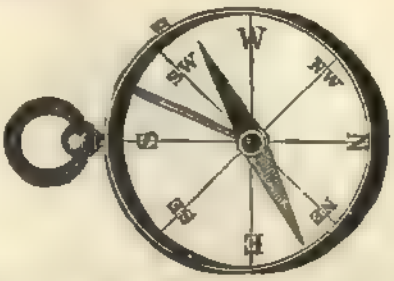
| | Per Dozen |
|---|---|
| **No. 1**—Marble's, Hard Rubber Handle, 11 in., Weight 18 Oz., . . . . . | $30 00 |
| **No. 2**—Marble's, Hard Rubber Handle, 11 in., Weight 20 Oz., Flat Driving Head, | 30 00 |
| **No. 3**—Marble's, Hard Rubber Handle, 12 in. Weight 24 Oz., Flat Driving Head, | 36 00 |
| **No. 4**—Marble's, Hickory Handle, 12 in., Weight 18 Oz., . . | 18 00 |
| **No. 5**—Marbles, Hickory Handle, 11 in., Weight 14 Oz., | 15.00 |

Marble's Hunting Axes are made from finest steel, sharpened to a fine cutting edge and protected by a patented metal guard which folds back into a groove in the under side of the handle when the axe is in use. At other times it fits close over the edge of blade protecting it from injury. The metal guard is lined with lead so that the cutting edge of axe cannot be dulled.

# Pocket Compasses.

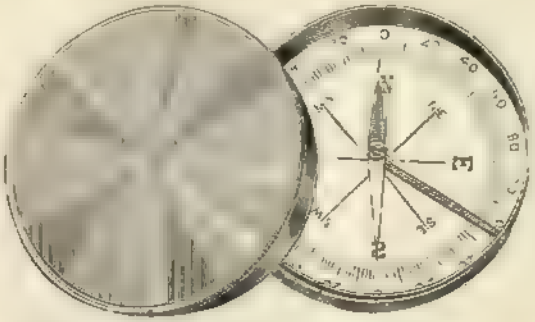
Brass Case, Loose Cover, Card Dia.

| | Per Dozen. |
|---|---|
| No. 12—1½ in., | $4.00 |
| No. 14—1¾ in., | 4.50 |



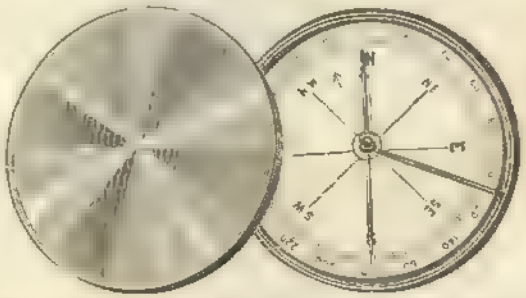
Brass Case, Open Face, Silvered Bottom, with Ring

| | Per Dozen. |
|---|---|
| No. 1313—1⅝ in., | $7.50 |
| No. 1313—2 in., | 9.60 |



Brass Case, Loose Cover, Full Division, Silvered Bottom, Agate Cap, Flat Needle with Stop

| | Per Dozen. |
|---|---|
| No. 1315—1⅝ in., | $13.50 |
| No. 1315—2 in., | 16.00 |
| No. 1315—2⅜ in., | 18.00 |



Brass Case, Loose Cover, Full Division, Silvered Bottom, Agate Cap, Deep Bar Needle, Automatic Stop.

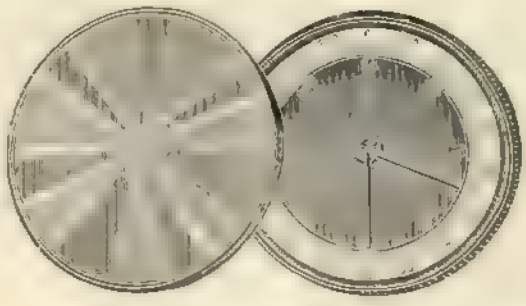
| | Per Dozen. |
|---|---|
| No. 1324—2 in., | $22.00 |
| No. 1324—2⅜ in., | 26.00 |
| No. 1324—2⅞ in., | 31.00 |

Brass Case, Loose Cover, Full Division, Silvered Bottom, Agate Cap, Deep Bar Needle, Automatic Stop

| | Per Dozen. |
|---|---|
| No. 1317—2¼ in., | $32.00 |
| No. 1317—2⅜ in., | 36.00 |
| No. 1317—3 in., | 38.00 |
| No. 1317—3⅜ in., | 43.00 |

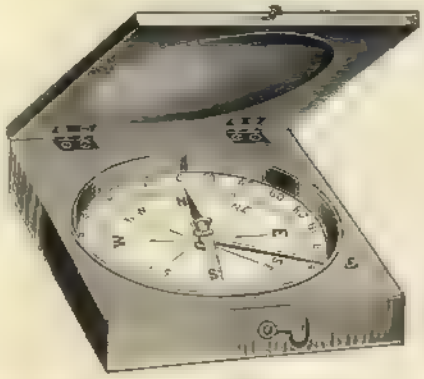
Nickel Plated Case, Loose Cover, Full Division, Silvered Bottom, Agate Cap, Deep Bar Needle, Automatic Stop.

| | Per Dozen. |
|---|---|
| No. 1324NP—2 in., | $28.00 |
| No. 1324NP—2⅜ in., | 34.00 |
| No. 1324NP 2¾ in., | 40.00 |



Stout Brass Case, Loose Cover, Full Division, Raised Silvered Circle, Agate Cap, Deep Bar Needle, Automatic Stop.

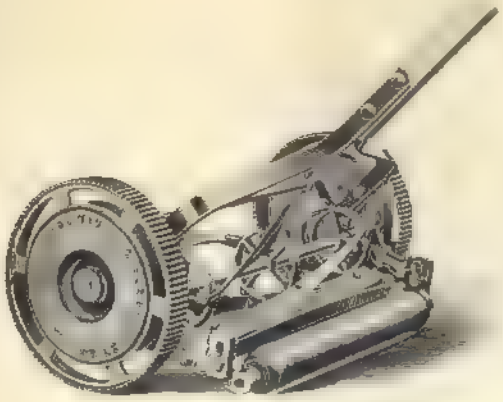
| | Per Dozen. |
|---|---|
| No. 1318 2¼ in., | $36.00 |
| No. 1318—2⅓ in., | 39.00 |
| No. 1318 3 in., | 42.00 |
| No. 1318—3⅜ in., | 47.00 |

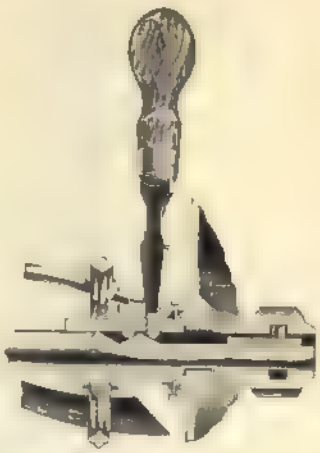


Black Walnut Case, Hinged Cover, Full Division, Silvered Bottom, Automatic Stop.

| | Per Dozen |
|---|---|
| No. 1321—2⅜ in., Flat Needle, | $22.00 |
| No. 1321—3 in., Flat Needle, | 24.00 |
| No. 1322—3 in., Deep Bar Needle, Agate Cap, | 28.00 |

# Lawn Mowers.





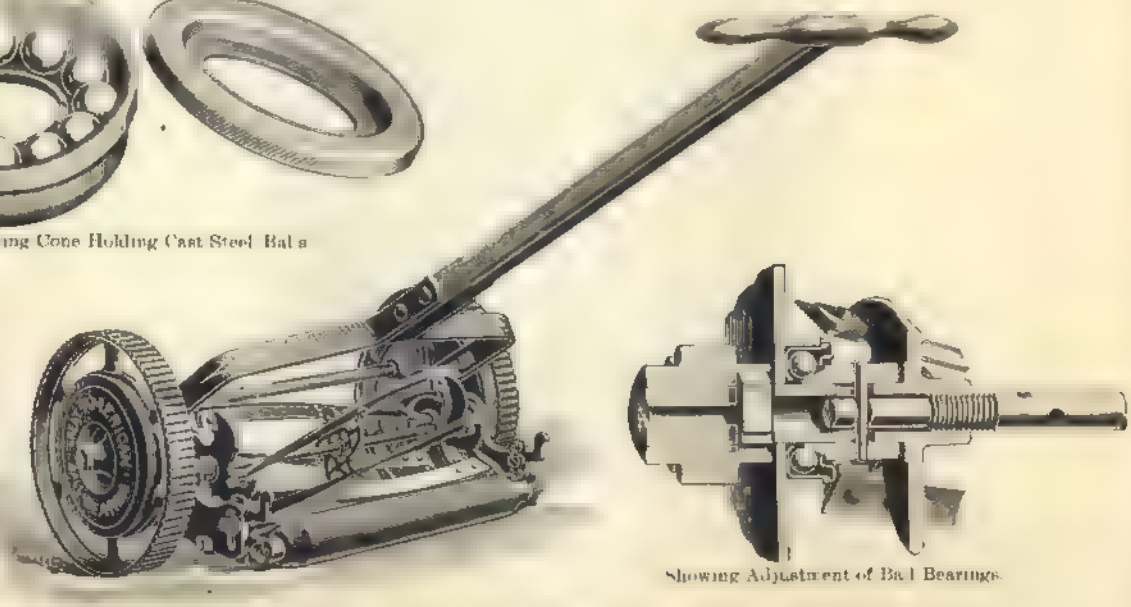
Showing Adjustment of Ball Bearings.

## Colby Ball Bearing, Open Cylinder.

| | | | |
|---|---|---|---|
| Width of Cut, Inches, | 14 | 16 | 18 |
| Diameter of Drive Wheels, Inches, | 9 | 9 | 9 |
| Number of Knives on Cylinder, | 4 | 4 | 4 |
| Each, | $14.00 | 16.00 | 18.00 |

The illustration of Cutting Blades shows the manner of adjusting the Ball Bearings to Lawn Mower
To take up lost motion in the bearings, loosen the screw marked 1 and tighten the screw next to it in which screw driver is inserted This operation will force the cone against the balls and take up all lost motion.

Showing Cone Holding Cast Steel Balls





Showing Adjustment of Ball Bearings

## The Great American Ball Bearing, High Wheel, Open Cylinder.

| | | | | |
|---|---|---|---|---|
| Width of Cut, Inches, | 15 | 17 | 19 | 21 |
| Diameter of Drive Wheels, Inches, | 10 | 10 | 10 | 10 |
| Number of Knives on Cylinder, | 5 | 5 | 5 | 3 |
| Each, | $19.00 | 21.00 | 23.00 | 25.00 |

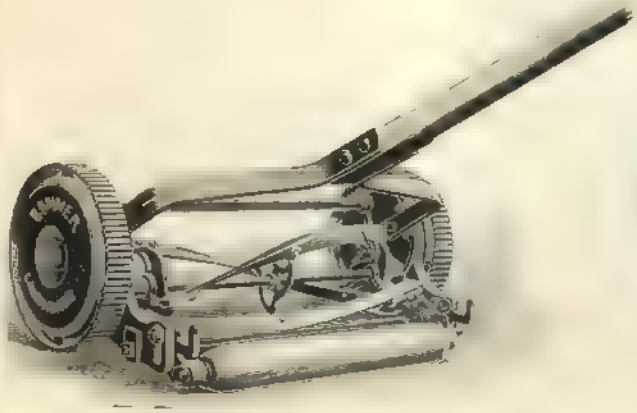
The Great American has a Patent Adjustable Cone so designed as to give the Best Bearing Surface with Minimum Friction The Steel Balls used are of the highest grade, and will not wear by friction, as they are placed in Dust Proof Cups.
The working gear is entirely covered therefore grass and other substances cannot enter these parts to destroy the motive power The revolving Cylinder is 6 inches in diameter, has Five Solid Cast Steel Patented Cutting Knives hardened and tempered in oil and protected by malleable supports and a rod passing through the Cylinder
The Pawls or Ratchets are hardened and tempered, and noiseless in action.
The dead knife (or cutting blade) can be regulated to cut the grass from $\frac{3}{8}$ to $1\frac{3}{8}$ inches from the ground, as desired.

# Lawn Mowers.

**Continental.**

| Width of Cut, Inches. | 15 | 17 | 19 | 21 |
|---|---|---|---|---|
| Diameter of Drive Wheels, Inches. | 9½ | 9½ | 9½ | 9½ |
| Number of Knives on Cylinder. | 4 | 4 | 4 | 4 |
| Each. | $25.00 | 28.00 | 31.00 | 34.00 |

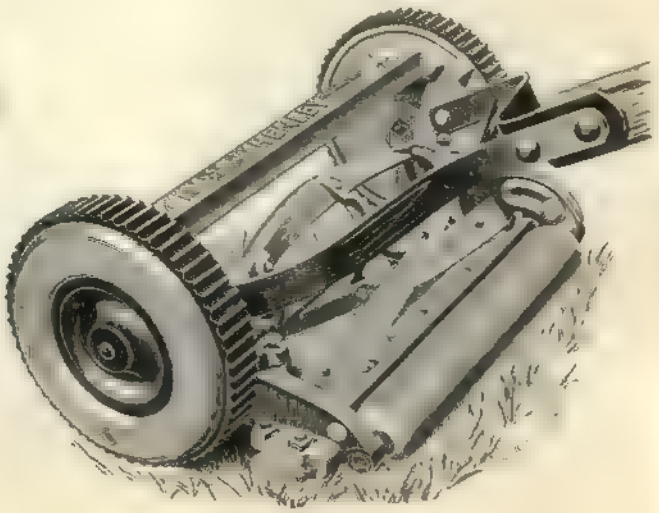
The material used in this Mower is of superior quality. The gearing is completely covered, rendering clogging impossible. The Cutting Knives are made of the Best Cast Steel, hardened and tempered in Oil and are self sharpening. The handle being adjustable, makes this Mower especially adapted for mowing Embankments.



**Banner.**

| Width of Cut, Inches. | 14 | 16 | 18 |
|---|---|---|---|
| Diameter of Drive Wheels, Inches. | 8 | 8 | 8 |
| Number of Knives on Cylinder. | 3 | 3 | 3 |
| Each. | $9.00 | 10.00 | 11.00 |

The material used in this Mower is of the highest grade and quality. The Cutting Knives are of special pattern and are made of extra quality Cast Steel, hardened and tempered in Oil, and are self-sharpening.

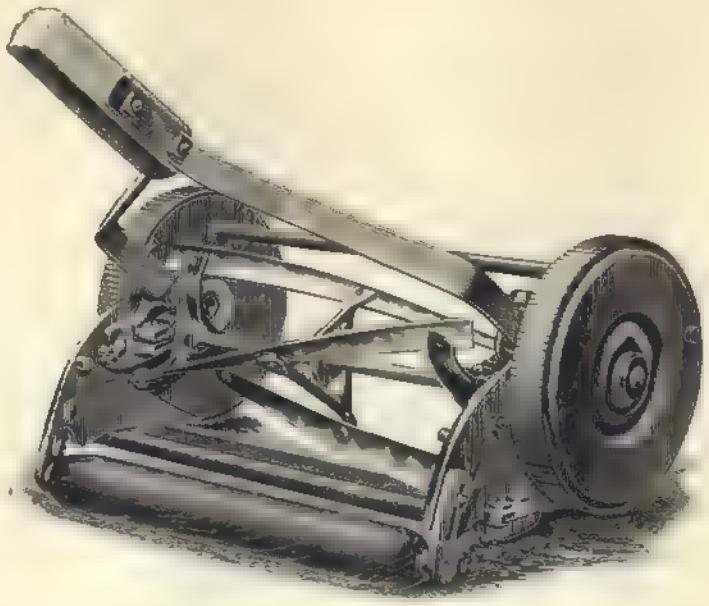


**Henley.**

| Width of Cut, Inches. | 14 | 16 |
|---|---|---|
| Diameter of Drive Wheels, Inches. | 8 | 8 |
| Number of Knives on Cylinder. | 3 | 3 |
| Each. | $9.00 | 10.00 |

The Henley is a first class, high grade Lawn Mower. The reel revolves in brass boxings, which have a simple arrangement for taking up any wear that may occur in use. The frame is made very strong and rigid by means of an iron bar extending from one side to the other, having a bearing at each end, 1⅝ to 2⅛ inches, and bolted solid to the side plates. This is a most excellent feature, as it holds the working parts in perfect line.

# Lawn Mowers.

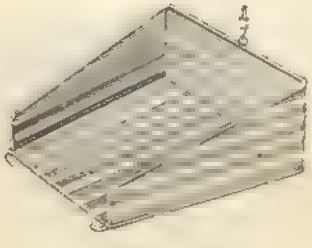


**Garland, Open Cylinder.**

| Width of Cut, Inches, | 12 | 14 | 16 |
|---|---|---|---|
| Diameter of Drive Wheels, Inches, | 8 | 8 | 8 |
| Number of Knives on Cylinder, | 3 | 3 | 3 |
| Each, | $6.00 | 6.50 | 7.00 |

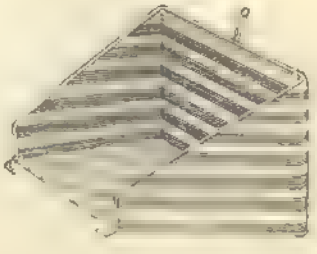
The Garland is designed for popular trade which [illegible] a low price, but efficient article. The material, workmanship and finish are good

# Grass Catchers.



**For Low Wheel Mowers.**

| | | Per Dozen. |
|---|---|---|
| No. 1 | For 12 to 16 in. Mowers, 8 in. Deep, | $10.00 |



**For High Wheel Mowers.**

| | | Per Dozen |
|---|---|---|
| No. 10 | For 12 to 16 in Mowers, 16 in. Deep, | $11.00 |
| No. 20 | For 16 to 20 in Mowers, 16 in Deep, | 12.00 |

# Pocket Knives.

## New York Knife Co.'s, Warranted.

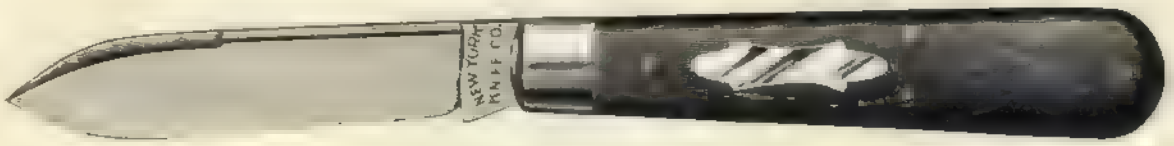
Full Size Cuts

**No. 125**—One Blade, Cocoa Handle, Steel Lined, Polished Steel Bolster. — Per Dozen $2 50

**No. 126** One Blade Cocoa Handle, Steel Lined, Polished Steel Bolster, — Per Dozen $3 30

**No. 1256**—One Blade, Cocoa Handle, Steel Lined, Polished Steel Bolster, . . — Per Dozen $4 00
**No. 133**—One Blade, Ebony Handle, Steel Lined, Polished Steel Bolster, . — 4 30

**No. 138** One Blade, Cocoa Handle, Steel Lined, Polished Steel Bolster. — Per Dozen $4 70




**No. 1016**—One Blade, Cocoa Handle, Steel Lined, Polished Steel Bolster, . . . — Per Dozen $6.00

**No. 1021**—One Blade, Ebony Handle, Steel Lined, Polished Steel Bolster, . . . . . — Per Dozen $7.50

Half Dozen in a Box

# Pocket Knives.

## New York Knife Co.'s, Warranted.

Full Size Cuts

| | Per Dozen |
|---|---|
| **No. 1347**—One Blade, Cocoa Handle, Brass Lined, Nickel Silver Bolster, | $3 80 |
| **No. 1430**—One Blade, Cocoa Handle, Brass Lined, Polished Steel Bolster, | 3 00 |

| | Per Dozen |
|---|---|
| **No. 1336**—One Blade, Cocoa Handle, Brass Lined, Nickel Silver Bolster, | $4.60 |
| **No. 1750**—One Blade, Cocobolo Handle, Steel Lined, Polished Steel Bolster, | 4.00 |

| | Per Dozen |
|---|---|
| **No. 1245**—One Blade, Cocoa Handle, Brass Lined, Nickel Silver Bolster, | $5 50 |

| | Per Dozen |
|---|---|
| **No. 153**—One Blade, Ebony Handle, Brass Lined, Nickel Silver Bolster, | $6 00 |
| **No. 1471**—One Blade, Ebony Handle, Steel Lined, Polished Steel Bolster, | 5 00 |

| | Per Dozen |
|---|---|
| **No. 1762**—One Blade, Cocobolo Handle, Steel Lined, Polished Steel Bolster, Etched, | $5 00 |
| **No. 165**—One Blade, Cocoa Handle, Steel Lined, Nickel Silver Bolster, not Etched, | 6 50 |

Half Dozen In a Box

# Pocket Knives.

New York Knife Co.'s, Warranted.

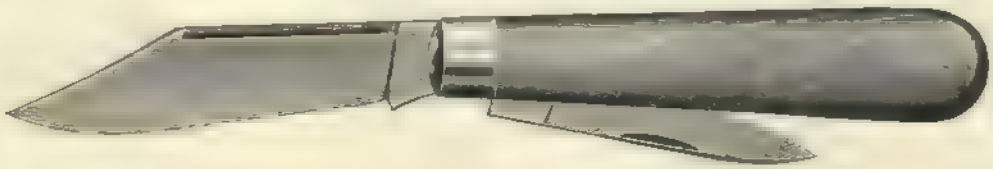
Full Size Cuts

**No. 225** Two Blades, Cocoa Handle, Steel Lined, Polished Steel Bolster, . Per Dozen. $3.80

**No. 226**—Two Blades, Cocoa Handle, Steel Lined, Polished Steel Bolster, . . Per Dozen. $4 00

**No. 2256**—Two Blades, Cocoa Handle, Steel Lined, Polished Steel Bolster, . . Per Dozen. $5 50
**No. 266**—Two Blades, Cocoa Handle, Steel Lined, Heavy, Polished Steel Bolster, 6 50

**No. 235**—Two Blades, Cocoa Handle, Steel Lined, Polished Steel Bolster, . . Per Dozen $7 00



**No. 209**—Two Blades, Cocobolo Handle, Steel Lined, Polished Steel Bolster, . . . Per Dozen. $4.25
**No. 2448**—Two Blades, Stag Handle, Steel Lined, Polished Steel Bolster and Shield, . 6 00

**No. 264**—Two Blades, Cocobolo Handle, Steel Lined, Polished Steel Bolster, . Per Dozen. $4.25

Half Dozen in a Box

# Cork Screws.

Per Dozen

No. 246 Boxwood Handle, Crucible Steel Wire Screw, Nickel Plated, . . $3.50

Per Dozen

No. A6—Maple Handle, Norway Steel Wire Screw, Nickel Plated, . . . $2.00

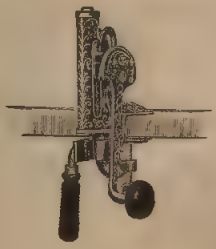
Per Dozen

No. 80 Pocket, Cartridge Shape, Spiral Wire Screw, Copper and Nickel Plated Cartridge, . . . . . $4.00

Per Dozen

No. 270 Pocket, Barrel Shape, Spiral Wire Screw, Nickel Plated Barrel, . . $3.50

# Cork Pullers.



Each

No. 260—Quick and Easy Cork Puller, with Bottle Holders, . . . . $4.00

The body is perpendicular, so that the bottle is held plumb while cork is being drawn.

Bottle holder opens in front, so bottle is easily inserted, quickly gripped, and firmly held in position,

SCHWABACHER HARDWARE CO.

# Cork Screws.

Removing Aluminum Stopper

No. 17—Applewood Handle, Convex Twist, with Crown and Stopper Opener and Wire Cutter, Nickel Plated, . . . . . Per Dozen $5.00

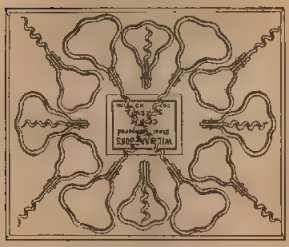
No. 117 Stag Handle, Convex Twist, with Crown and Stopper Opener and Wire Cutter, Nickel Plated and Highly Finished, . . . . . Dozen $10.00

No. 6152 Waiters', Maple Handle, Nickel Plated, Convex Twist of Crucible Steel, Draws Corks, Removes Crowns, Lifts Seals and Breaks Wire, . . Per Dozen $5.50

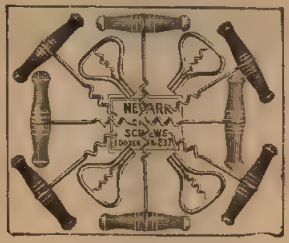
These Cork Screws cover the greatest range of work of any manufactured. They are made of High Grade Special Steel, carefully tempered and highly finished. The peculiar shaped Worm does not cut or draw through the Cork. The Handles are securely fastened to Shank of Screw, as shown in cut. Every Screw tested and warranted

One in a Package; One Dozen in Carton.

# Assorted Cork Screws.

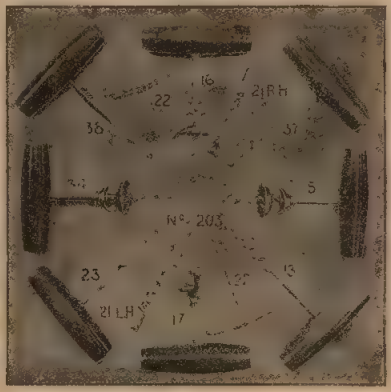


No. 710—Assorted Card of One Dozen Folding Pocket Cork Screws, Nickel Plated, Assorted Medium and Large, . . . Per Card $2.00




No. 237—Assorted Card of One Dozen, Half Folding Pocket Nickel Plated, and Half Wood Handle Cork Screws, . Per Card $1.50

No. 207—Assorted Card of One Dozen, Two Pocket, Four Wood Handles, Six Wire Loop Handles, . . . . . Per Card $1.70




No. 203—Assorted Card of One Dozen, Two Pocket, Four Self-Pulling, Six Wood Handles, . . . . . Per Card $4.00

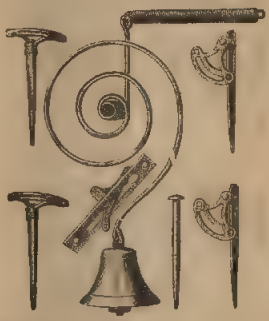
All One Dozen on a Card.

# Alarm Bells.

Code Iractum
No. 125—4 In. Bronzed Steel Bell, . . . . . Per Dozen $10.00
Weight 12 lbs. Per Dozen.
One-Twelfth Dozen in a Box.

SCHWABACHER HARDWARE CO.

Code Irosse
No. 133 -2⅝ In. Polished Brass Bell, Japanned Steel Spring, . . . Per Dozen $15.00
Weight 6 lbs. Per Dozen.



Code Irideux
No. 204—2⅝ In. Polished Brass Bell, Complete with Fixtures, . . . Per Dozen $15.00
Weight 10 lbs. Per Dozen.

Code Irisable
No. 207 2⅝ In. Polished Brass Bell, with Spike Only, . . . . . 9.00
Weight 8 lbs. Per Dozen.
Half Dozen in a Box.

## Inside Corner Irons.

No. 165 Wrought Iron.

| Inches, | 1½ | 2 | 2½ | 3 |
|---|---|---|---|---|
| Code, | Iriasted | Iriscope | Irishism | Irishry |
| Per Dozen, | $0.50 | .70 | .80 | .90 |
| **Inches,** | | **4** | **5** | **6** |
| Code, | | Irisring | Irksome | Irlandais |
| Per Dozen, | | $1.20 | 1.40 | 1.60 |

## Stair Case Corners.

Code Ironflat
No. 03523—Polished Brass, . . . Per Gross $6.00
Weight 3 lbs. Per Gross.

# Adjustable Iron Planes.

Stanley's.

**Bull Nose Rabbet.**

| | Each |
|---|---|
| **No. 75**—4 in. Long, 1 in. Cutter, | $0 .35 |

**Bull Nose Rabbet.**

| | Each |
|---|---|
| **No. 90**—Adjustable, 4 in. Long, 1 in Cutter, . | $2 00 |

**Bull Nose Rabbet.**

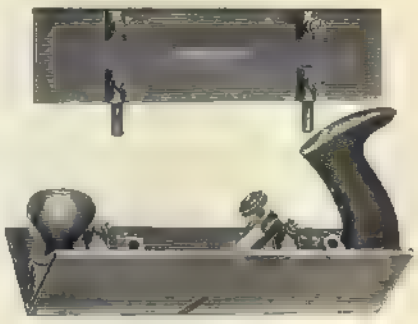
| | Each |
|---|---|
| **No. 92**—Adjustable 5½ in Long, ¾ in Cutter, . | $2.00 |
| **No. 93**—Adjustable, 6½ in. Long, 1 in. Cutter, . | 2.35 |
| **No. 94**—Adjustable, 7½ in. Long, 1½ in. Cutter, . | 2.75 |

These Planes are designed for fine cabinet work, where extreme accuracy is desired The sides and bottom being square with each other, the Plane will lie perfectly flat on either side, and can be used right and left.

**Floor.**

| | Each |
|---|---|
| **No. 74**—10½ in. Long, 2⅜ in. Cutter, . . | $4.50 |

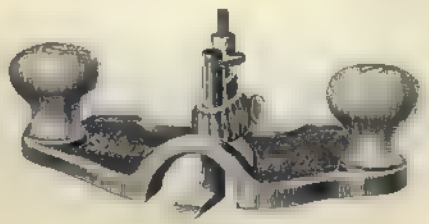
Useful for planing floors of Bowling Alleys, Skating Rinks, Decks of Vessels, etc. Construction of Plane will enable owner to do more work than with any other tool. Weight of Plane is about 10 pounds, and full length of handle is 45 inches.



**Core Box.**

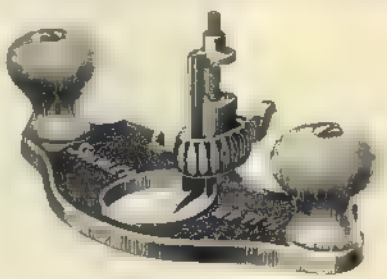
| | Each |
|---|---|
| **No. 57**—For Working Semi-Circles up to 5 in Diameter, with 1 Pair Additional Sections | $4 00 |
| | Per Pair |
| Extra Sections for Larger Diameters, . . . | $1.00 |

Constructed so that the sides can be extended by additional sections, 2¼ in. wide, until a diameter of 10 inches can be worked if desired



**Router.**

| | Each |
|---|---|
| **No. 71**—Nickel Plated Stock, with Steel Bits, ¼ and ½ in., . . . . . | $1.85 |



**Router.**

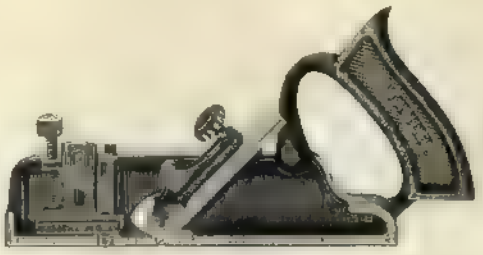
| | Each |
|---|---|
| **No. 71½**—Nickel Plated Stock, with Steel Bits, ¼ and ½ in., . . . . . | $1.50 |

This tool should be added to the kit of every skilled Carpenter, Cabinet Maker, Stair Builder, Pattern Maker or Wheelwright. It is perfectly adapted to smooth the bottom of grooves, panels or all depressions below the general surface of any woodwork.

The cutter can also be clamped to the back side of the upright post, and outside of the stock. In this position they will plane into corners, will router out mortises for sash frame pulleys, or will smooth surfaces not easily reached with any other tool.

# Adjustable Iron Planes.

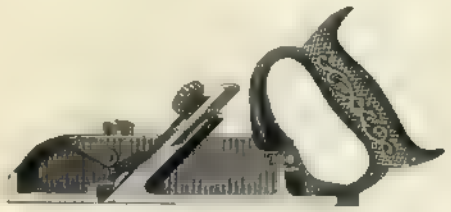
Stanley's



**Improved Dado.**

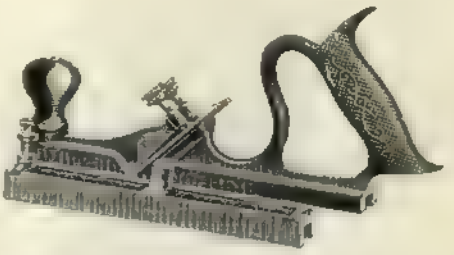
| | Each. |
|---|---|
| **No. 39**—Iron Stock, 8 in. Long ¼ in. Cutter, | $1 50 |
| **No. 39**—Iron Stock, 8 in Long, ⅜ in Cutter, | 1 50 |
| **No. 39**—Iron Stock, 8 in. Long ½ in. Cutter, | 1 50 |
| **No. 39**—Iron Stock, 8 in. Long ⅝ in Cutter, | 1 50 |
| **No. 39**—Iron Stock, 8 in Long, ¾ in Cutter, | 1.50 |
| **No. 39**—Iron Stock, 8 in. Long, ⅞ in Cutter, | 1 50 |
| **No. 39**—Iron Stock, 8 in. Long. 1 in Cutter, | 1.50 |

The Cutter is set on a Skew. Plane is fitted with a Depth Gauge, adjustable by means of a Thumb Screw Also with two Adjustable Spurs, which can be adjusted to take up wear as well as for depth of cut



**Rabbet, with Spur.**

| | Each. |
|---|---|
| **No. 190**—Iron Stock, 8 in Long, 1¼ in Wide, | $1.15 |
| **No. 191**—Iron Stock, 8 in. Long, 1½ in. Wide, | 1.15 |

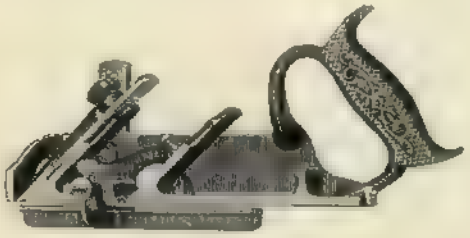


**Tonguing and Grooving.**

| | Each. |
|---|---|
| **No. 48**—Iron Stock and Fence, for ¾ to 1¼ in Boards | $2 50 |

Nos. 190 and 191 will be perfectly flat on either side, and can be used with right or left hand as may be most convenient while planing into corners or up against perpendicular surfaces.

The Stock of No. 48 is made of metal, and has two Cutters fastened into the stock by thumb screws The guide, or fence, when set as shown in the accompanying engraving allows both of the Cutters to act, and the Cutters being placed at a suitable distance apart a perfect Tonguing Plane is made The Guide or Fence which has a lug on a pivot at its center may be easily swung at right angles to the end thus one of the Cutters will be covered and the Guide head in a new position thereby converting the Tool into a Grooving Plane A groove will be cut to exactly match the tongue which is made by the other adjustment of the Tool



**Rabbet and Filletster.**

| | Each. |
|---|---|
| **No. 78** Iron Stock and Fence, 8½ in. Long 1½ in Cutter, | $1.50 |

The arm to which the fence is secured can be screwed into either side of the stock, thus making a superior right or left hand Filletster, with adjustable spur and depth gauge.

Remove the arm to which the fence is secured and a Handled Rabbet Plane is had and with two seats for the Cutter, so that the tool can be used as a Bull Nose Rabbet if required.

**Beading.**

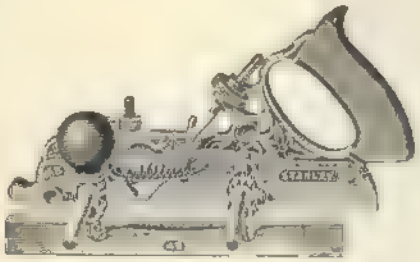
| | Each |
|---|---|
| **No. 50** Adjustable, Iron Stock and Fence, including Bits, ⅛, 5/16, ⅜, 7/16, ½, 9/16 and ⅝ in., | $4.00 |

This Tool, for ordinary beading or for center beading cannot be surpassed. By adjustment of the fence center beading can be done up to 5 inches from the edge of a board. Except for working across the grain, the spurs need not be used

Each Plane is accompanied by seven Bits, One Each, ⅛, 3/16, ¼, 5/16, ⅜, 7/16 and ½ in

# Adjustable Iron Planes.

Stanley's.



## Beading, Rabbet and Slitting

Each.

**No. 45**—Iron Stock and Fence, Nickel Plated, . $8.00

This Plane embraces (1) Beading and Center Beading Plane; (2) Rabbet and Filletster; (3) Dado; (4) Plow, (5) Matching Plane; (6) a superior Slitting Plane; and (7) Sash Planes.

Each Plane has seven Beading Tools, (1/8, 3/16, 1/4, 5/16, 3/8, 7/16 and 1/2 in.), ten Plow and Dado Bits (1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4 and 7/8 in.); a Slitting Blade, a Sash Tool and a Tonguing Tool. Following are recent improvements added to this Plane: (1) Iron Gauge, with Stem, (2) Smooth surface on outer side of Fence; (3) Extra pair of Short Arms.

One in a Box

Cuts of some tools which accompany No. 45 Plane

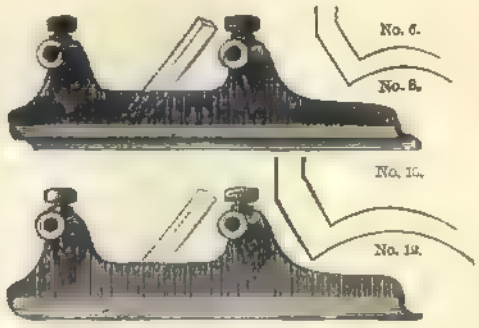
Beading Tools. Plow and Dado Bits. Slitting Tool. Tonguing Tool.

## Nosing Tools.

Each

**No. 5**—1½ in., for No. 45 Stanley's Planes, . $1 00

One in a Box.




## Hollows and Rounds.

For use on Stanley's Plane No. 45.

| Nos. | 6 | 8 | 10 | 12 |
|---|---|---|---|---|
| Cutter, Width Inches, | ½ | ⅝ | ¾ | 1 |
| Works, Circle, Inches, | ¾ | 1 | 1¼ | 1½ |
| Per Pair, | $1.40 | 1.40 | 1.40 | 1.40 |

These additional parts for working Hollows and Rounds, can be attached to Plane No 45, but they are not included in the regular assortment of parts sent out with the Plane, in its original form.

The size, or arc, which each Number will work, is shown above The Numbers correspond with the regular Lists of common Hollows and Rounds. The size indicated in the list of prices, is not the measurement across the face of the Hollow or Round but the full diameter of a circle of which it works only an arc.

One Pair in a Box.

## Traut's Dado, Filletster, Plow, Etc.

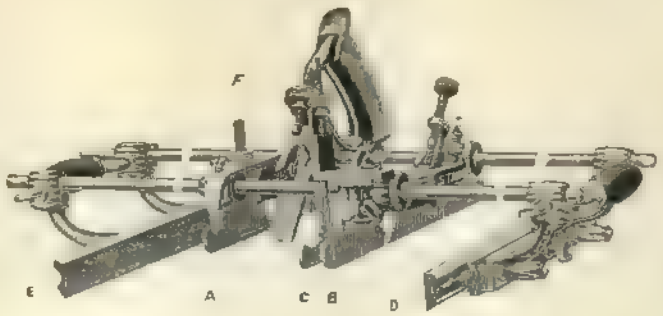
Each

**No. 46** Iron Stock and Fence, Nickel Plated, Accompanied with 11 Tools, Bits, Etc., . $7.00

This Tool is accompanied by eight Plow and Dado Bits (3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 7/8 and 1¼ inch), a Filletster Cutter, a Slitting Tool and a Tonguing Tool. All except the Slitting Blade are secured in the main stock on a skew

# Adjustable Iron Planes.

## Stanley's.




### Universal.

**No. 55**—Nickel Plated, with 52 Tools, Bits, Etc., . . . . . Each. $16.00

One in a Box

This Plane consists of:—

**A Main Stock** (A) with two sets of transverse sliding arms, a depth gauge (F) adjusted by a screw and a Slitting Cutter with stop.

**A Sliding Section** (B) with a patent vertically adjustable bottom.

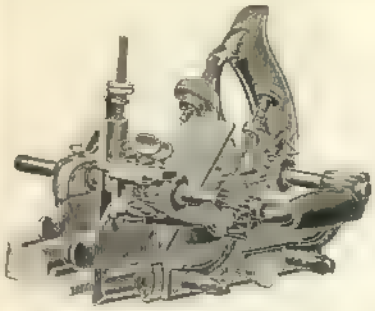
**The Auxiliary Center Bottom** (C) is to be placed in front of the Cutter, as an extra support, or stop, when needed. This bottom is adjustable both vertically and laterally.

**Fences D and E.** Fence D has a lateral adjustment by means of a screw for extra fine work. The fences can be used on either side of the Plane, and the rosewood guides can be tilted to any desired angle, up to 45°, by loosening the screws on the face. Fence E can be reversed for Center Beading wide boards.

**An Adjustable Stop** to be used in beading the edges of matched boards is inserted on the left hand side of Sliding Section (B).

This Plane takes the place of a full assortment of so-called "Fancy Planes." The same assortment of "Fancy Planes" would cost many times as much as one No. 55. The weight of this plane and 52 tools is 14 pounds.

By means of the patent adjustable bottom and the auxiliary center bottom it is possible to use a cutter of practically any shape with this Plane. This design of bottom is not used in any other Plane now made. Special cutters will be made to order or blanks from which workmen can file up any form they may require will be furnished as ordered.



No. 55 as Moulding Plane

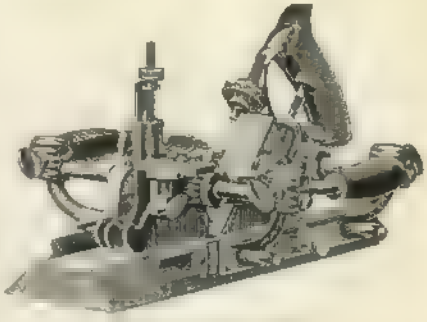
### Directions For Using No. 55.

**Moulding Plane**—Insert a Cutter, and adjust bottom of Sliding Section (B) to conform to the shape of the Cutter; then, by means of the two Check nuts on the transverse arms, fasten this section firmly—**before tightening** the Thumbscrews which secure the sliding section to the arms.

When needed, adjust Auxiliary Center Bottom (C) for an additional support in front of the Cutter. By tilting the rosewood guides on Fences D and E, mouldings of various angles may be formed.

**Match, Sash, Beading, Reeding, Fluting, Hollow, Round, Plow, Rabbet and Fillet ster Plane.** Use in same manner as for Mouldings. In working Match and Sash Cutters, the Auxiliary Center Bottom, (C) may be used as a stop.

**Dado**—Remove the Fences (D and E) and set the spurs parallel with the edges of the Cutter. Insert long Adjustable Stop on left hand side of Sliding Section.



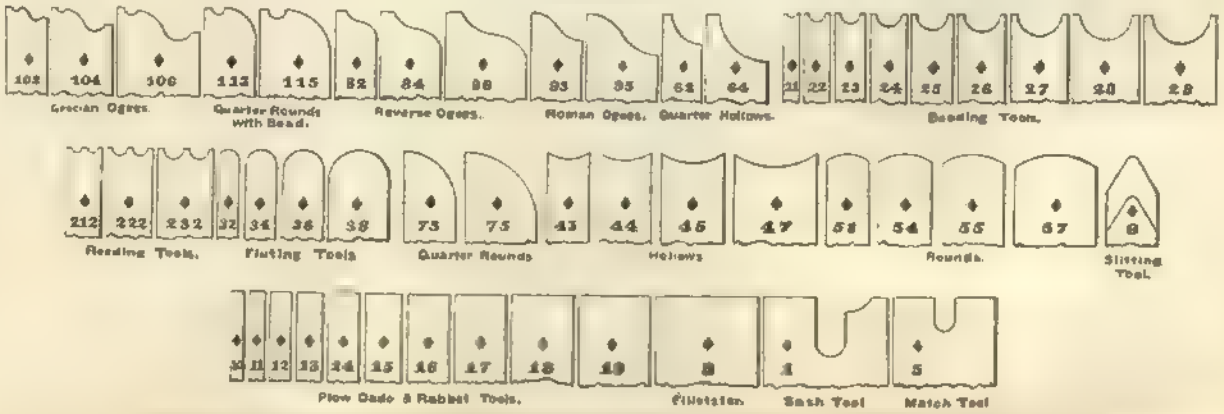
No. 55 as Chamfer Plane

**Slitting Plane**—Insert the Cutter and Stop on right hand side of Main Stock, and use Fence D or E for guide.

**Chamfer.** Insert the desired cutter, fasten a Fence on each side of the Plane, and set the rosewood guides to required angle. For Chamfer Beading, use in the same form as above, and feed the cutter down, gradually, by use of thumb-nut for adjustment.

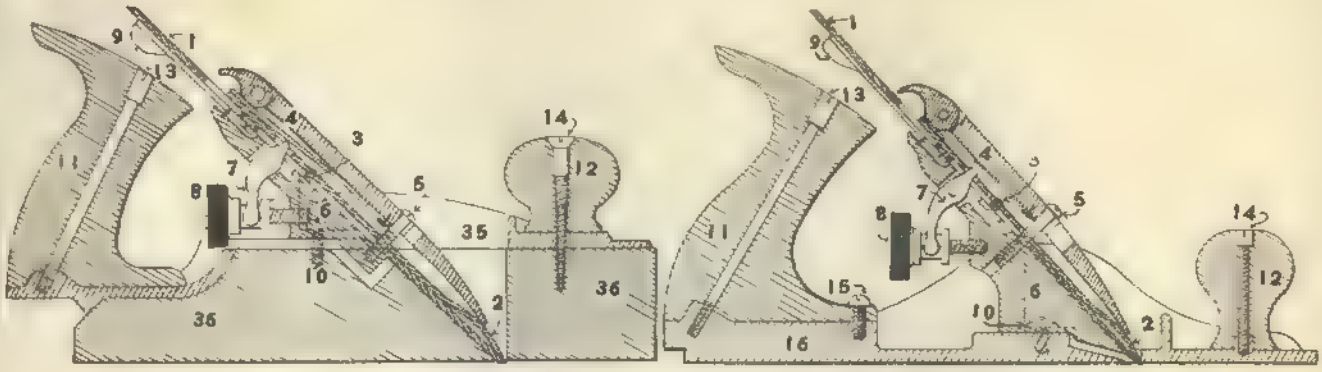
## Shapes of Tools Packed with No. 55 Plane.

Half Size Cuts.



# Extra Parts for Patent Planes.

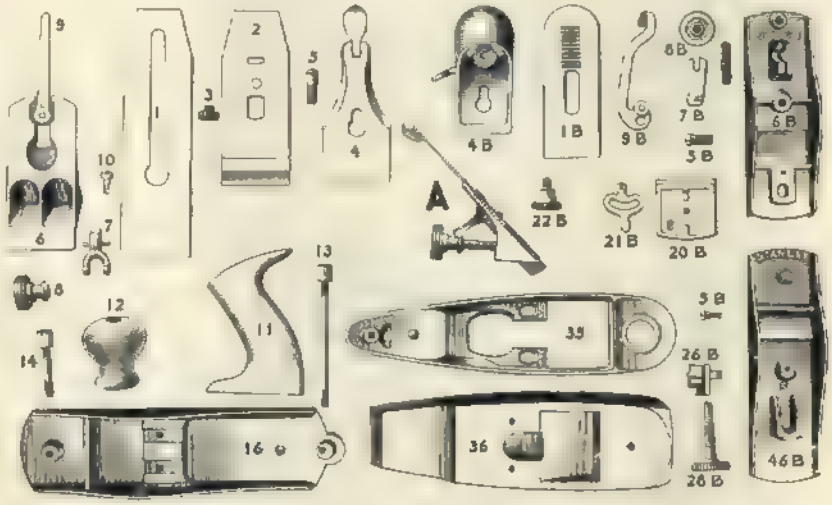
Bailey's, Stanley's and Chaplin's.



Sectional Elevation of Bailey Wood Plane.

Sectional Elevation of Bailey Iron Plane.

**No. 1** Plane Iron
**No. 2**—Plane Iron Cap.
**No. 3**—Plane Iron Screw.
**No. 4**—Cap.
**No. 5**—Cap Screw.
**No. 6**—Frog.
**No. 7** "Y" Adjustment
**No. 8**—Brass Adjusting Nut.
**No. 9**—Lateral Adjustment.
**No. 10**—Frog Screw.
**No. 11**—Handle.
**No. 12**—Knob.
**No. 13**—Handle "Bolt and Nut."
**No. 14**—Knob "Bolt and Nut."
**No. 15**—Handle Screw.
**No. 16**—Bottom (Iron Plane).
**No. 35**—Top Casting (Wood Plane)
**No. 36**—Bottom (Wood Plane).



## List of Parts of Block Planes.

**1B** Plane Iron
**4B**—Cap
**5B**—Cap Screw
**7B**—Adjusting Lever
**8B**—Adjusting Nut
**9B**—Lateral Adjustment
**16B**—Bottom (Adj Throat)
**20B** Mouth Piece
**21B**—Eccentric Plate
**22B**—Knob
**26B**—Adjustable Frog
**28B** Adjusting Screw
**46B** Bottom

| | Per Dozen |
|---|---|
| Caps for Nos. 9½, 9¾, 15 and 15½ Bailey's Planes, | $2 40 |
| Caps for Nos. 18 and 19 Bailey's Planes, | 3 60 |
| Caps for No. 20 Chaplin's Planes, | 3 60 |
| Caps for No. 30 Chaplin's Planes, | 4 80 |
| Caps for Nos. 102, 103, 110 and 220 Stanley's Planes. | 2 40 |
| Slitting Tools for No. 45 Stanley's Planes, | 2 40 |
| Spurs for Nos. 45 and 46 Stanley's Planes, | 50 |
| Set Screws for Nos. 45 and 46 Stanley's Planes, | 50 |
| Depth Gauges for No. 46 Stanley's Planes. | 4 80 |
| Handles for Nos. 3, 4, 5, 6, 7 and 8 Bailey's Planes, | 3 60 |
| Handles for Nos. 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 and 36 Bailey's Planes, | 2 00 |

Parts not Listed Above can be Promptly Furnished Direct from Factory

# Adjustable Iron Planes.

## Chaplin's

**Smooth Bottom.**

| | Each |
|---|---|
| **No. 20**—Block, 6½ in. Long, 1⅝ in. Cutter, Solid Throat, Japanned. | $1 40 |
| **No. 30**—Block, 6½ in. Long, 1⅝ in. Cutter, Solid Throat, Nickel Plated | 1 65 |

**Corrugated Bottom.**

| | Each |
|---|---|
| **No. 1205** Smooth, 9 in. Long, 2 in. Cutter, Nickel Plated, Checkered Rubber Handle, | $3.50 |
| **No. 1207**—Jack, 15 in. Long, 2¼ in. Cutter, Nickel Plated, Checkered Rubber Handle, | 4 25 |
| **No. 1208**—Fore, 18 in. Long, 2¼ in. Cutter, Nickel Plated, Checkered Rubber Handle, | 5 00 |
| **No. 1210**—Jointer, 22 in. Long, 2⅜ in. Cutter, Nickel Plated, Checkered Rubber Handle | 5 75 |
| **No. 1255**—Smooth, 9 in. Long, 2 in. Cutter, Nickel Plated, Adjustable Throat, Checkered Rubber Handle, | 3 75 |

# Iron Block Planes.

## Sargent's.

**No. 104** Toy, 3½ in. Long, 1 in. Cutter, Each $0 20

**No. 106**—5½ in. Long, 1¼ in. Cutter, Each $0 40

**No. 107** 7¼ in. Long, 1⅝ in. Cutter, Each $0.60

**No. 206**—5½ in. Long, 1¼ in. Cutter, Each $0 60

**No. 207**—7½ in. Long 1⅝ in. Cutter, Each $0.85

**No. 306**—6 in. Long, 1¾ in. Cutter, Adjustable Throat, Screw and Side Adjustment, Each $1 50

**No. 307**—7 in. Long, 1⅝ in. Cutter, Adjustable Throat, Screw and Side Adjustment, Each 1 60

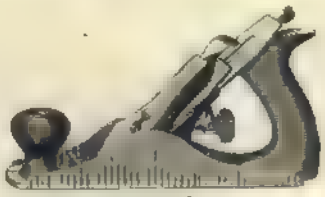
**No. 316**—6 in. Long, 1⅝ in. Cutter, Adjustable Throat, Rosewood Handle, Screw and Side Adjustment, Each $1 75

**No. 317**—7 in. Long, 1⅝ in. Cutter, Adjustable Throat, Rosewood Handle, Screw and Side Adjustment, Each 1 85

One in a Box

# Adjustable Iron Planes.

Sargent's.



Smooth.

| | Each |
|---|---|
| **No. 408**—8 in. Long, 1¾ in. Cutter, Rosewood Handle and Knob, | $3 00 |
| **No. 409**—9 in. Long, 2 in. Cutter, Rosewood Handle and Knob, | 3.25 |

**Jack and Fore.**

| | Each |
|---|---|
| **No. 414**—Jack 14 in. Long, 2 in. Cutter, Rosewood Handle and Knob, | $3.75 |
| **No. 418**—Fore 18 in Long, 2⅜ in Cutter, Rosewood Handle and Knob, | 4.75 |

One in a Box.

**Jointer.**

| | Each |
|---|---|
| **No. 422**—22 in Long, 2⅜ in Cutter, Rosewood Handle and Knob, | $5 50 |
| **No. 424**—24 in Long, 2⅜ in. Cutter, Rosewood Handle and Knob, | 6.50 |

# Adjustable Wood Planes.

Sargent's.

| | Each |
|---|---|
| **No. 3407** Smooth, 7 in Long, 1¾ in Cutter, | $2.00 |
| **No. 3408**—Smooth, 8 in Long, 1¾ in Cutter, | 2.00 |
| **No. 3409** Smooth, 9 in. Long, 1¾ in. Cutter, | 2.00 |
| **No. 3410**—Smooth, 8 in. Long, 2 in. Cutter, | 2.00 |

| | Each |
|---|---|
| **No. 3411** Handled Smooth, 9 in. Long, 2 in Cutter, | $2 50 |
| **No. 3412**—Handled Smooth, 10 in Long, 2⅜ in Cutter, | 2 75 |

| | Each |
|---|---|
| **No. 3415**—Jack, 15 in Long, 2 in. Cutter, | $2 25 |
| **No. 3416**—Jack, 15 in Long, 2⅜ in. Cutter, | 2 50 |
| **No. 3418**—Fore, 18 in. Long, 2⅜ in. Cutter, | 2 75 |
| **No. 3420**—Fore, 20 in. Long, 2⅜ in. Cutter, | 2 75 |
| **No. 3422**—Jointer, 22 in. Long, 2⅜ in Cutter, | 3 00 |
| **No. 3424**—Jointer, 24 in. Long, 2⅜ in. Cutter, | 3.00 |
| **No. 3426**—Jointer, 26 in. Long, 2⅜ in. Cutter, | 3 25 |
| **No. 3428**—Jointer, 28 in. Long, 2⅜ in. Cutter, | 3.25 |
| **No. 3430**—Jointer, 30 in. Long, 2⅜ in. Cutter, | 3.50 |

One in a Package

# Bench Planes.

Ohio Tool Co.'s

No. 1—German Pattern Smooth or Scrub Beechwood, 8½ in. Long 1¾ in Cast Steel Single Iron — Each $1 10

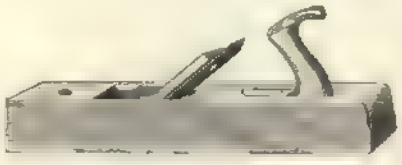
No. 3 Smooth 8 in Long 2 to 2¼ in. Double Iron, Polished Start. — Each $0.90

No. 4—Smooth, 9 in Long 2 to 2¼ in. Double Iron, Polished Iron Start. — Each 1.00

No. 5 —Handled Smooth 9 in Long 2 to 2¼ in Double Iron Solid Handle — Each $1 75

No. 5½—Handled Smooth 9 in Long, 2 to 2¼ in Double Iron, Jack Handle. — Each 1 50

No. 7 —Boys' Handled Smooth, 5 in. Long, 1¼ in. Single Iron. — Each 65



No. 15—Jack, 16 in Long, 2 to 2¼ in. Double Iron, Polished Start. — Each $1 00

No. 16—Jack 16 in Long 2 to 2¼ in. Double Iron, Polished Iron Start. Bolted Handle. — Each 1 25

No. 17 Boys' Jack 12 in. Long, 1⅝ in. Single Iron, — Each 75

No. 21 Fore 22 in Long 2⅜ to 2⅝ in Double Iron, Polished Start, — Each $1.40

No. 22—Fore 22 in Long 2⅜ to 2⅝ in Double Iron Iron Start, Bolted Handle. — Each 2 00

No. 27—Jointer 26 in Long 2½ to 2¾ in Double Iron, Polished Start, — Each $1.50

No. 27 Jointer 28 in Long 2½ to 2¾ in Double Iron, Polished Start. — Each 1 60

No. 27—Jointer, 30 in. Long, 2½ to 2¾ in Double Iron, Polished Start, — Each 1.75

No. 27—Jointer, 32 in. Long, 2½ to 2¾ in. Double Iron, Polished Start. — Each 2.25

## Scioto Bench Planes.

No. 3—Smooth, 8 in. Long, 2 to 2¼ in. Double Iron, Polished Start, — Each $0 90

No. 15—Jack, 16 in. Long, 2 to 2¼ in. Double Iron, Polished Start. — Each 1 00

No. 21—Fore, 22 in. Long, 2⅜ to 2⅝ in Double Iron, Polished Start. — Each 1 40

No. 27—Jointer, 26 in. Long, 2½ to 2¾ in. Double Iron, Polished Start. — Each 1 50

No. 27—Jointer, 28 in Long, 2½ to 2¾ in. Double Iron, Polished Start. — Each 1 60

No. 27—Jointer, 30 in. Long, 2½ to 2¾ in. Double Iron, Polished Start, — Each 1 75

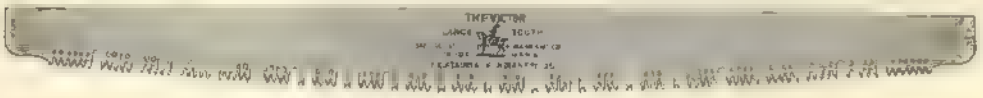
# Cross Cut Saws.

E. C. Atkins & Co.'s.

**Pennsylvania Rex.**

Segment Ground, Special Steel, Extra Thin Back, 14x19 Gauge.

| Feet, | 5 | 5½ | 6 | 6½ | 7 |
|---|---|---|---|---|---|
| Each, | $4.00 | 4.40 | 4 80 | 5.20 | 5 60 |



**Victor.**

Perforated Lance Tooth, Special Steel, Thin Back, 14x18 Gauge

| Feet, | 5 | 5½ | 6 | 6½ | 7 |
|---|---|---|---|---|---|
| Each, | $3.00 | 3.30 | 3.60 | 3 90 | 4.20 |

**Moss Back.**

Perforated Tuttle Tooth, Special Nickel Steel, Thin Back, 14x18 Gauge.

| Feet | 5 | 5½ | 6 | 6½ | 7 |
|---|---|---|---|---|---|
| Each | $3.50 | 3.85 | 4.20 | 4 55 | 4 90 |

**No. 1, Thin Back.**

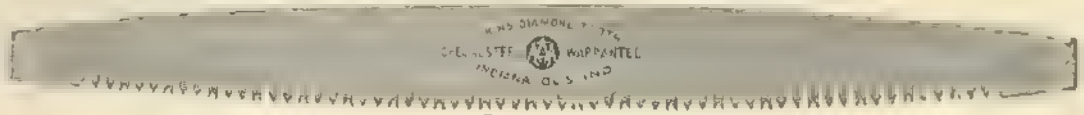
Tuttle Tooth, Extra Quality Steel, Thin Back, 14x18 Gauge

| Feet | 5 | 5½ | 6 | 6½ | 7 |
|---|---|---|---|---|---|
| Each, | $2.50 | 2.76 | 3.00 | 3 26 | 3 50 |

**No. 01, Extra Thin Back.**

Tuttle Tooth, Extra Quality Steel, Extra Thin Back, 14x19 Gauge.

| Feet, | 5 | 5½ | 6 | 6½ | 7 |
|---|---|---|---|---|---|
| Ea— | $3.00 | 3.26 | 3.50 | 3 76 | 4 00 |



**Diamond.**

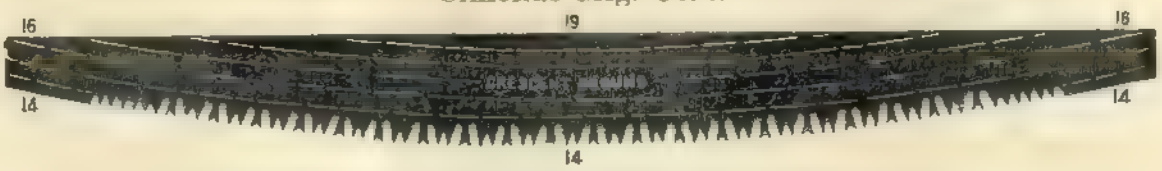
Diamond Tooth. Patent Temper, Thin Back, 14x18 Gauge.

| Feet, | 5 | 5½ | 6 | 6½ | 7 |
|---|---|---|---|---|---|
| Each, | $2.80 | 3.08 | 3.36 | 3 64 | 3 92 |

Lists on this page do not include Handles.

# Cross Cut Saws.

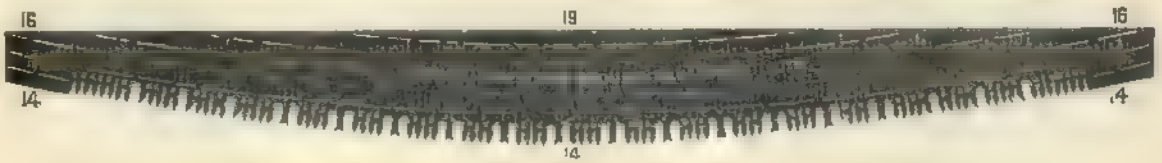
## Simonds Mfg. Co.'s.




### Champion Tooth.

Extra Quality Steel, Special Temper. Crescent Ground. Extra Thin Back, 14x19 Gauge.

| Feet, | 5 | 5½ | 6 | 6½ | 7 |
|---|---|---|---|---|---|
| Each, | $3.50 | 4 10 | 4 80 | 5.50 | 6 30 |

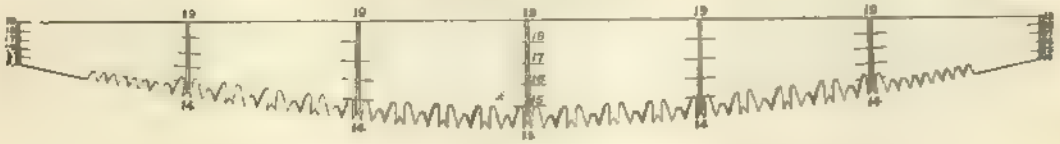



### Lance Tooth.

Extra Quality Steel, Special Temper, Crescent Ground. Extra Thin Back, 14x19 Gauge

| Feet, | 5 | 5½ | 6 | 6½ | 7 |
|---|---|---|---|---|---|
| Each | $3.50 | 4.10 | 4 80 | 5.50 | 6 30 |

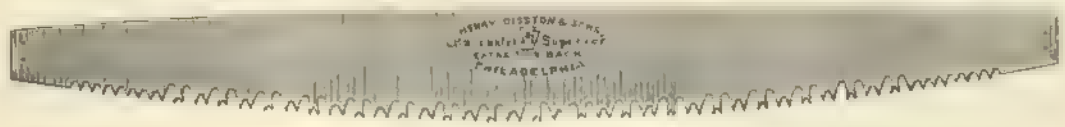
## H. Disston & Sons'.



### Vim.

Champion Tooth, Special High Grade Steel. Extra Thin Back, 14x19 Gauge

| Feet, | 5 | 5½ | 6 | 6½ | 7 |
|---|---|---|---|---|---|
| Each, | $5.00 | 5.50 | 6.00 | 6.50 | 7.00 |



### No. 1—Extra Thin Back.

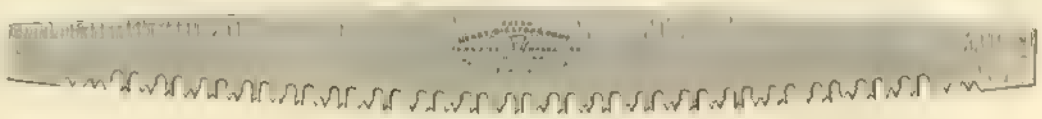
Champion Tooth, Extra Cast Steel, 14x18 Gauge

| Feet, | 5 | 5½ | 6 | 6½ | 7 |
|---|---|---|---|---|---|
| Each | $3.00 | 3.30 | 3.60 | 3 90 | 4 20 |

### No. 2—Thin Back.

Champion Tooth, Extra Quality Steel, 14x16 Gauge

| Feet, | 5 | 5½ | 6 | 6½ | 7 |
|---|---|---|---|---|---|
| Each, | $2 70 | 2 97 | 3.24 | 3 51 | 3.78 |



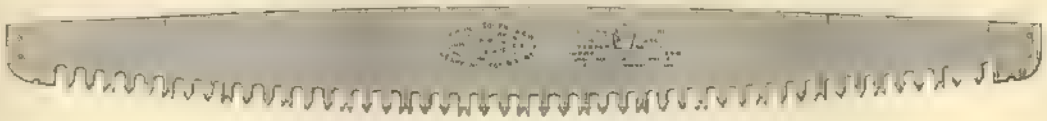
### No. 1—Tuttle Tooth.

Extra Cast Steel, Extra Thin Back, 14x18 Gauge

| Feet, | 5 | 5½ | 6 | 6½ | 7 |
|---|---|---|---|---|---|
| Each, | $3 00 | 3.30 | 3 60 | 3 90 | 4 20 |

Lists on this page do not include Handles.

# Cross Cut Saws.



**Disston's No. 1. Diamond Tooth.**

Extra Cast Steel, Patent Temper, Thin Back, 14x18 Gauge.

| Feet | 5 | 5 ½ | 6 | 6 ½ | 7 |
|---|---|---|---|---|---|
| Each | $3.40 | 3 74 | 4.08 | 4.42 | 4 76 |

**Racer.**

Lance Tooth, Silver Steel Extra Thin Back 14x19 Gauge

| Feet, | 5 | 5 ½ | 6 | 6 ½ | 7 |
|---|---|---|---|---|---|
| Each. | $6 25 | 6.88 | 7 50 | 8 13 | 8 75 |

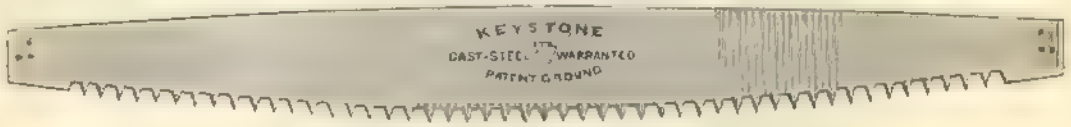
**Wheeler, Madden and Clemson.**

No. 1. Champion Tooth, Extra Thin Back, 14x18 Gauge.

| Feet. | 5 | 5 ½ | 6 | 6 ½ | 7 |
|---|---|---|---|---|---|
| Each | $3.00 | 3.30 | 3 60 | 3.90 | 4 20 |

No. 2. Champion Tooth, Thin Back, 14x16 Gauge.

| Feet. | 5 | 5 ½ | 6 | 6 ½ | 7 |
|---|---|---|---|---|---|
| Eac | $2.70 | 2 97 | 3.24 | 3.51 | 3.78 |




**No. 2. Keystone.**

Common Tooth, Cast Steel, 14x16 Gauge.

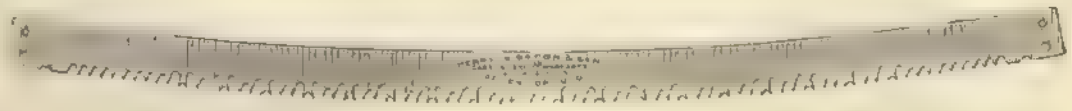
| Feet | 5 | 5 ½ | 6 | 6 ½ | 7 |
|---|---|---|---|---|---|
| Each | $2 90 | 3.19 | 3 48 | 3 77 | 4 06 |

**No. 2. Keystone, Tenon.**

Tenon Tooth, Cast Steel, 14x16 Gauge

| Feet | 4 | 4 ½ | 5 |
|---|---|---|---|
| Each | $2 32 | 2 61 | 2 90 |

# Narrow Cross Cut Saws.



**Disston's.**

Champion Tooth, Cast Steel, Hollow Back.

| Feet | 5 | 5 ½ | 6 | 6 ½ | 7 |
|---|---|---|---|---|---|
| Each | $1.80 | 1.98 | 2.16 | 2.34 | 2.52 |

**Pennsylvania.**

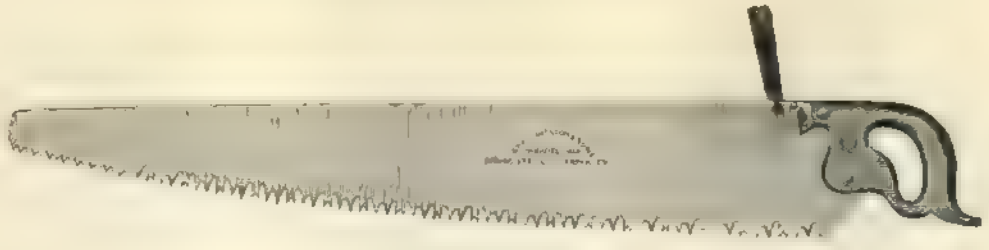
Champion Tooth, Cast Steel, Hollow Back.

| Feet. | 5 | 5 ½ | 6 | 6 ½ | 7 |
|---|---|---|---|---|---|
| Each, | $1.75 | 1.95 | 2.10 | 2 25 | 2 40 |

Lists on this page do not include Handles.

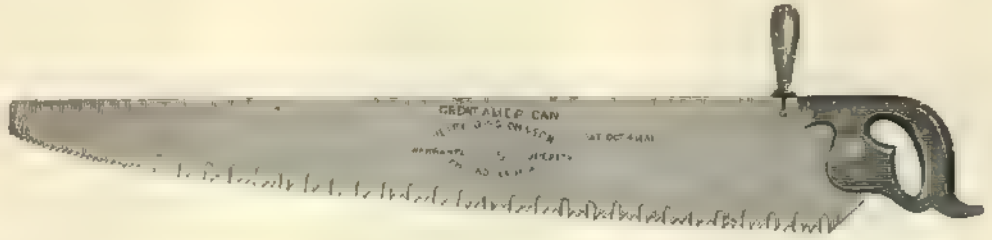
# One Man Cross Cut Saws.

Henry Disston & Sons'.



**Champion Tooth.**

| Feet, | 3½ | 4 | 4½ | 5 |
|---|---|---|---|---|
| Each, with Handles, | $2 80 | 3.00 | 3 35 | 3.70 |



**Great American Tooth.**

| Feet, | 3½ | 4 | 4½ | 5 |
|---|---|---|---|---|
| Each, with Handles, | $2 75 | 3 25 | 3.65 | 4 10 |

Wheeler, Madden & Clemson's.

**Champion Tooth.**

| Feet, | 3½ | 4 | 4½ | 5 |
|---|---|---|---|---|
| Each, with Handles, | $2 50 | 2.90 | 3 25 | 3 60 |

**Racer, Lance Tooth.**

| Feet, | 3½ | 4 | 4½ | 5 |
|---|---|---|---|---|
| Each, with Handles, | $4 50 | 5.00 | 5 50 | 6.00 |

# Pocket Knives.

Eclipse Cutlery Co.'s, Warranted.

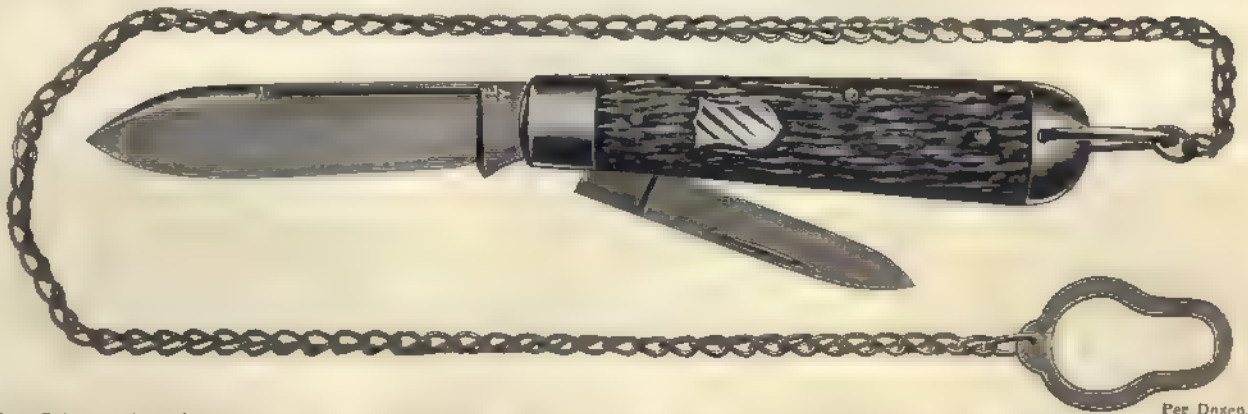
Full Size Cuts.

**No. 786G** Two Blades, Ebony Handle, Brass Lined, Polished Steel Bolster. — Per Dozen $8 00

**No. 546** —Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolster, . . . . . Per Dozen. $10.00

**No. 382** —Two Blades, Ebony Handle, Brass Lined, Polished Steel Bolster. — Per Dozen. $8 00

**No. 385** —Two Blades, Cocobolo Handle, Brass Lined, Polished Steel Bolster, — Per Dozen $8.00
**No. 386** —Two Blades, Ebony Handle, Brass Lined, Polished Steel Bolster, — $ 00



**No. 249** —Two Blades, Stag Handle, Brass Lined, Polished Steel Bolster, with 18 in Nickel Plated Steel Chain, — Per Dozen. $8.00

Half Dozen in a Box.

# Pocket Knives.

## Eclipse Cutlery Co.'s, Warranted.

Full Size Cuts

| | Per Dozen. |
|---|---|
| **No. 210**—Two Blades, Cocobolo Handle, Steel Lined, Polished Steel Bolsters, | $6 50 |
| **No. 245**—Two Blades, Cocobolo Handle, Brass Lined, Polished Steel Bolsters, | 7 25 |
| **No. 246**—Two Blades, Ebony Handle, Brass Lined, Polished Steel Bolsters, | 7 50 |

| | Per Dozen |
|---|---|
| **No. 426**—Two Blades, Ebony Handle, Brass Lined, Polished Steel Bolsters, | $9 00 |

| | Per Dozen. |
|---|---|
| **No. 360**—Two Blades, Cocobolo Handle, Brass Lined, Polished Steel Bolsters, | $9 00 |
| **No. 363**—Two Blades, Stag Handle, Brass Lined, Polished Steel Bolsters, | 9 00 |

| | Per Dozen. |
|---|---|
| **No. 995**—Two Blades, Cocobolo Handle, Brass Lined, Polished Steel Bolsters | $8 00 |

| | Per Dozen. |
|---|---|
| **No. 410**—Two Blades, Cocobolo Handle, Brass Lined, Polished Steel Bolsters, | $10.00 |

| | Per Dozen |
|---|---|
| **No. 450**—Two Blades, Cocobolo Handle, Steel Lined, Polished Steel Bolsters, | $ 9 00 |
| **No. 440**—Two Blades, Cocobolo Handle, Brass Lined, Polished Steel Bolsters, | 10 00 |

Half Dozen in a Box

# Pocket Knives.

Eclipse Cutlery Co.'s, Warranted.

Full Size Cuts

No. 895—Two Blades, Cocobolo Handle, Brass Lined, Polished Steel Bolsters, Per Dozen $7.50
No. 896—Two Blades, Ebony Handle, Brass Lined, Polished Steel Bolsters, . . 8.00

No. 250—Two Blades, Stag Handle, Brass Lined, Polished Steel Bolsters. . . . Per Dozen $8.00

No. 365 Two Blades, Cocobolo Handle, Steel Lined, Polished Steel Bolsters, . . Per Dozen $7 75
No. 366 -Two Blades, Ebony Handle, Steel Lined, Polished Steel Bolsters. . . 8 00

No. 571 Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters . Per Dozen $10 50

No. 831—Three Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters Per Dozen $13.00

No. 488 Three Blades, Stag Handle, Brass Lined, Nickel Silver Bolsters, . . . . . Per Dozen $16 50

# Pocket Knives.

Full Size Cuts

No. 649—One Blade, Beech Handle, Steel Lined. — Per Dozen $0.80

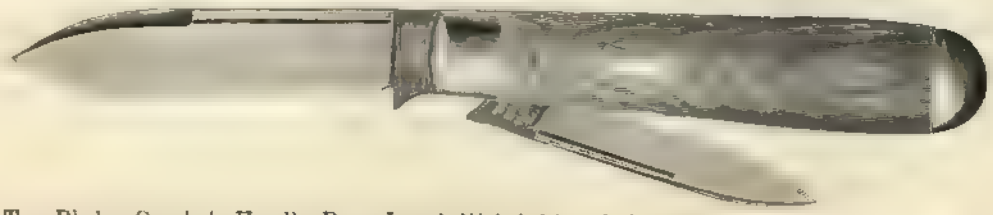
No. 1537—One Blade, Cocoa Handle, Steel Lined, Polished Steel Bolster. — Per Dozen $1.50

No. 1118—Two Blades, Metal Handle, Steel Lined. — Per Dozen $1 25
No. 1119—One Blade, Metal Handle, Steel Lined, — .80

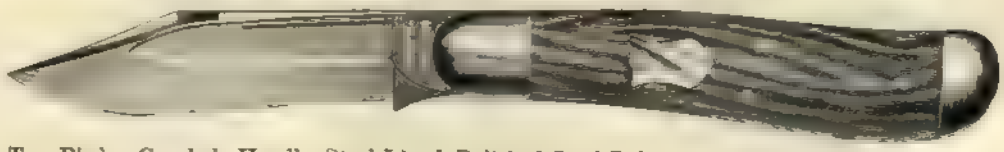
## Southington Cutlery Co.'s, Warranted.

No. 1610—Two Blades, Cocobolo Handle, Steel Lined, Polished Steel Bolster. — Per Dozen $6.50

No. 1012—Two Blades, Cocobolo Handle, Steel Lined, Polished Steel Bolster. — Per Dozen $6.50



No. 941—Two Blades, Cocobolo Handle Brass Lined, Nickel Silver Bolsters. — Per Dozen $7.50



No. 6946—Two Blades, Cocobolo Handle, Steel Lined, Polished Steel Bolsters, — Per Dozen $7 50
No. 3868—Two Blades, Ebony Handle, Steel Lined, Polished Steel Bolsters, — 7.00

Half Dozen in a Box.

# Pocket Compasses.

Per Dozen

No. 2500—1⅛ In. Brass Case, Open Face, Ring Handle, Paper Dial, Full Division, . . . $3.25
No. 2500 1½ In. Brass Case, Open Face, Ring Handle, Paper Dial, Full Division, . . . 4.50
No. 2500 2 In. Brass Case, Open Face, Ring Handle, Paper Dial, Full Division, . 6.00

Per Dozen

No. 2502½ 1½ In. Brass Case, Slip Cover, Metal Dial, Full Division, . . $ 9.00
No. 2502½ 2 In. Brass Case, Slip Cover, Metal Dial, Full Division, . . 12.00

Per Dozen

No. 211 2½ In. Brass Case, Slip Cover, Silvered Metal Dial, Raised Circle, Jeweled Needle, with Stop, . $30.00

Per Dozen

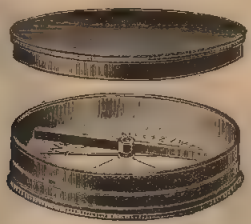
No. 2503 1½ In. Brass Case, Slip Cover, Silvered Metal Dial, Quarter Division, with Stop Needle, . . . $12.00
No. 2503 2 In. Brass Case, Slip Cover, Silvered Metal Dial, Quarter Division, with Stop Needle, . . . 15.00

Per Dozen

No. 182 -Marble's, 1⅛ In. Brass Case, Nickel Plated, Open Faced, Silvered Metal Dial, with Safety Hook, . $15.00

This Compass has Waterproof Screw Case. Bracket is made like double safety pin, and fastens securely to coat, vest or belt.

# Pocket Compasses.



Per Dozen

No. 2538 2 In. Brass Case, Slip Cover, Black Oxidized Metal Scale, Raised Silvered Circle, Full Division, Bar Needle, Jeweled Center, . . . . . $36.00

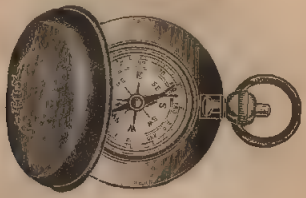
SCHWABACHER HARDWARE CO.

Per Dozen

No. 402 1½ In. Brass Case with Ring, Open Face, Silvered Metal Dial, Quarter Division, Jeweled Needle, with Stop, . . . . . $12.00

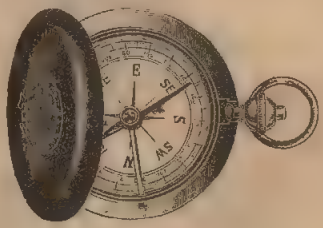
Per Dozen

No. 167 2 In. Gun Metal Case with Ring, Open Face, Silvered Metal Dial, Jeweled Needle, with Stop, . $18.00



Per Dozen

No. 144 1¾ In. Hunting Case Nickel Plated, with Beveled Glass, Paper Dial, Full Division, . . $12.00



Per Dozen

No. 136—1½ In. Hunting Case, Nickel Plated, Silvered Metal Dial, Full Division, Jeweled Needle, with Stop, . $21.00

No. 136—1¾ In. Hunting Case, Nickel Plated, Silvered Metal Dial, Full Division, Jeweled Needle, with Stop, . 24.00

# Pocket Compasses.

Per Dozen

**No. 150** 2 In. Hunting Case, Silvered Metal Dial, Fine Division, Jeweled Bar Needle, with Automatic Stop, . $54.00

Per Dozen

**No. 2**—2 In. Hunting Case, Gun Metal Finish, Raised Circle, Full Division, Jeweled Glow Needle, Automatic Stop, . . . . . $72.00

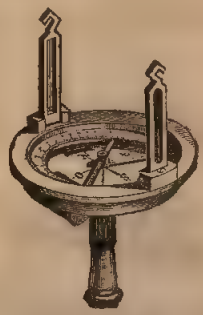
This Compass is particularly adapted for use at Night as it has Luminous Dial.

# Surveyors' Compasses.

Per Dozen

**No. 556**—2 In. Nickle Plated Watch Pattern Case, Hinged Cover, with Folding Sights, Silvered Metal Dial, with Full Division, Jeweled Needle, with Stop, . . . . . $96.00

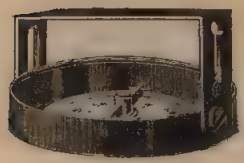
**No. 556** 2¾ In. Nickel Plated Watch Pattern Case, Hinged Cover, with Folding Sights, Silvered Metal Dial, with Full Division, Jeweled Needle, with Stop, . . . . . 108.00



Per Dozen

**No. 2560**—3½ In. Brass Case, Folding Sights, Ball and Socket Joint for Jacob Staff, Silvered Metal Dial, Raised Circle Graduated to 1 Degree, Bar Needle, with Two Level Glasses, . . . . . $168.00

# Surveyors' Compasses.



As Sight Compass.

As Clinometer.

Per Dozen

No. 2557 2½ In. Brass Case, Combining Sight Compass and Clinometer. Silvered Metal Dial. Raised Circle Graduated to One Degree, Sights Are Pivoted to Compass Box and Connected by a Cross Bar, Which is Turned Down When Instrument is Used as a Clinometer. The Clinometer Gives Inclinations in Inches, Yards and Degrees, . . . . . $120.00

Put Up in a Neat Leather Case.

SCHWABACHER HARDWARE CO.

# Magnifying Glasses.

Per Dozen

No. 12 -1¾ In. Coddington Nickel Plated Case, with Ring, with Highest Possible Power Glass, . $36.00

# Magnifying Glasses.

Per Dozen

No. 100—1¼ In. Single Lens, Oxydized Case, $12.00
No. 200 1¼ In. Double Lens, Oxydized Case, 15.00
No. 300—1¼ In. Triple Lens, Oxydized Case, 18.00
No. 62—1¼ In. Single Lens, Hard Rubber Case, . . . . . 9.00

# Magnets.

Enameled, Polished Poles.

| | | | |
|---|---|---|---|
| Length, In., . . . | 3 | 4 | 5 |
| Per Dozen, . . . | $1.50 | 2.50 | 5.00 |
| Length, In., . . . | 6 | 8 | 10 |
| Per Dozen, . . . | $7.00 | 16.00 | 26.00 |

# Pocket Knives.

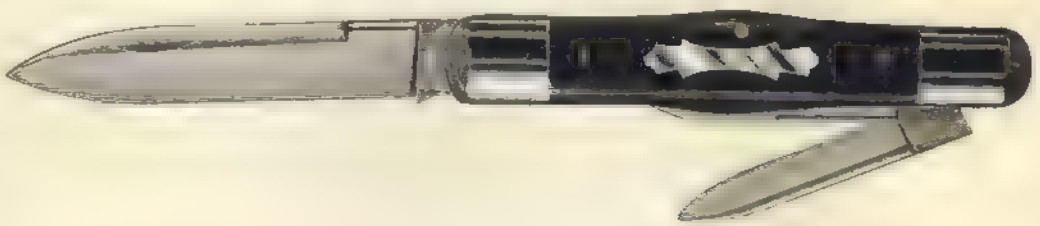
## New York Knife Co.'s, Warranted

Full Size Cuts

**No. 361** Three Blades, Stag Handle, Brass Lined, Nickel Silver Bolsters, — Per Dozen $15.75

**No. 4021**—Four Blades, Stag Handle, Brass Lined, Nickel Silver Bolsters. — Per Dozen $20 00
**No. 4023** Four Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters. — 30.00

**No. 3072**—Three Blades, Stag Handle, Brass Lined, Nickel Silver Bolsters. — Per Dozen $16 00



**No. 3136**—Three Blades, Ebony Handle, Brass Lined Nickel Silver Bolsters — Per Dozen $13.00

**No. 3189**—Three Blades, Stag Handle, Brass Lined, Nickel Silver Bolsters, — Per Dozen $15.50
**No. 3181**—Three Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters, — 14 00

Half Dozen in a Box.

# Pocket Knives.

## New York Knife Co.'s, Warranted.

Full Size Cuts.

No. 311—Three Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters, Per Dozen $15 50

No. 376—Three Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, Per Dozen $13.50

No. 3140—Three Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, Per Dozen $15.50

No. 381—Three Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters, Per Dozen $15 50

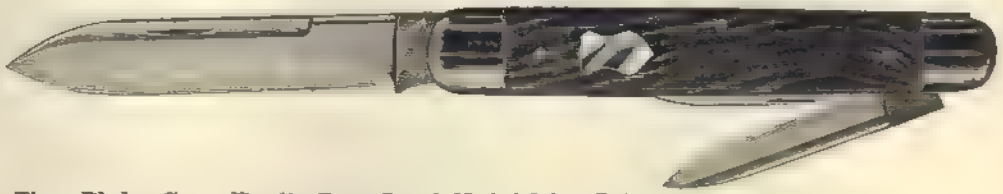
No. 3184—Three Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, Per Dozen $16.50

Half Dozen in a Box.

# Pocket Knives.

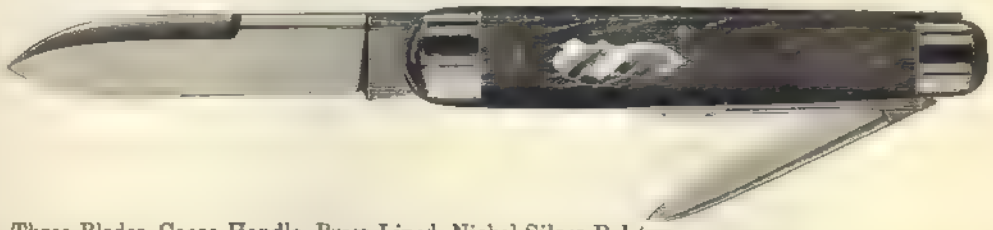
New York Knife Co.'s, Warranted.

Full Size Cuts.



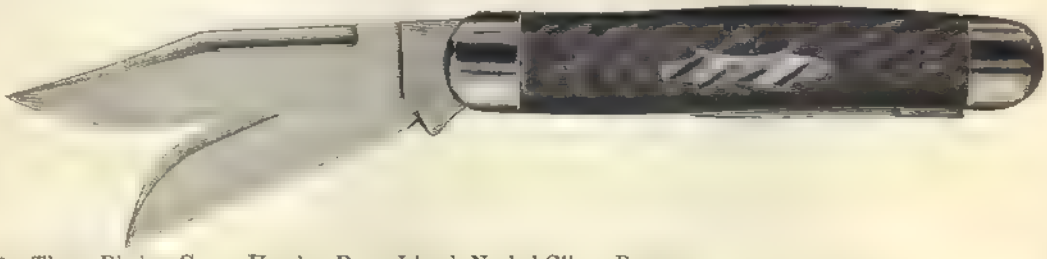
Per Dozen.

**No. 3125**—Three Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, . . . $14.00
**No. 3127**—Three Blades, Stag Handle, Brass Lined, Nickel Silver Bolsters, . . . . . 14.50



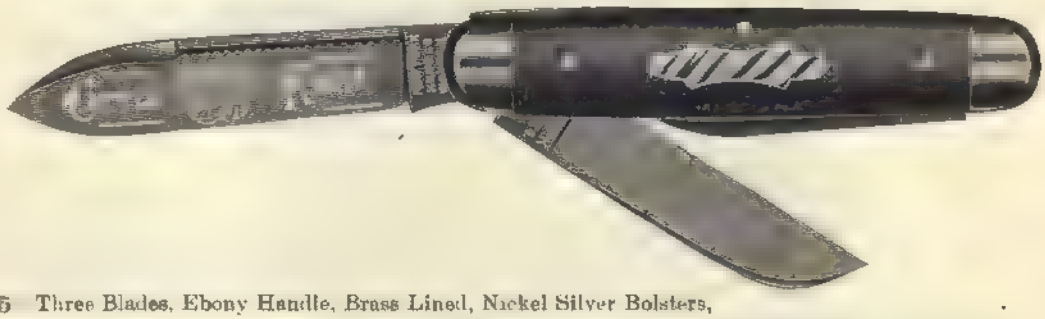
Per Dozen.

**No. 3074**—Three Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, $13.50
**No. 3873**—Three Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, . 14.50



Per Dozen.

**No. 3210** Three Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, . . . . . $15 50



Per Dozen

**No. 3085** Three Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters, . . $13.50

Per Dozen

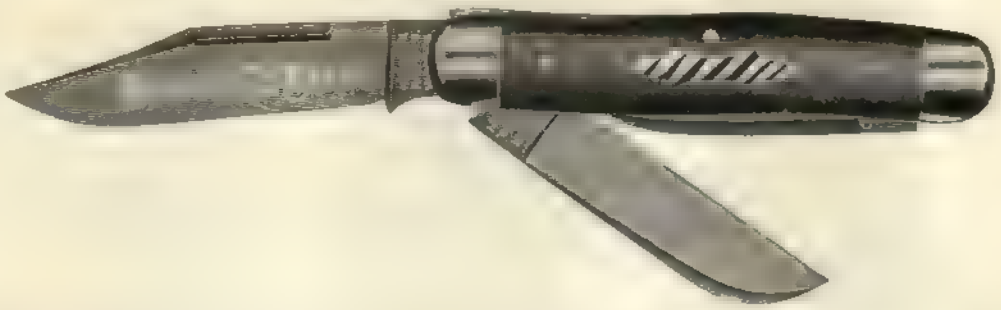
**No. 3222** -Three Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters, . $14 00

Half Dozen in a Box

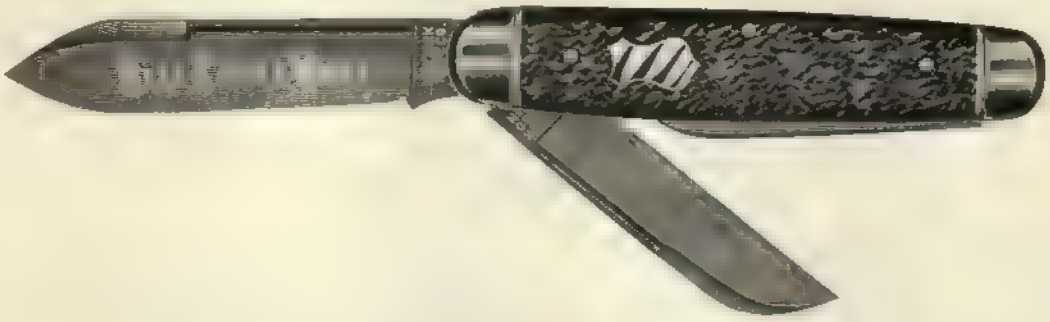
# Pocket Knives.

New York Knife Co.'s, Warranted.

Full Size Cuts



No. 3705—Three Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, . . . . . Per Dozen. $13.50



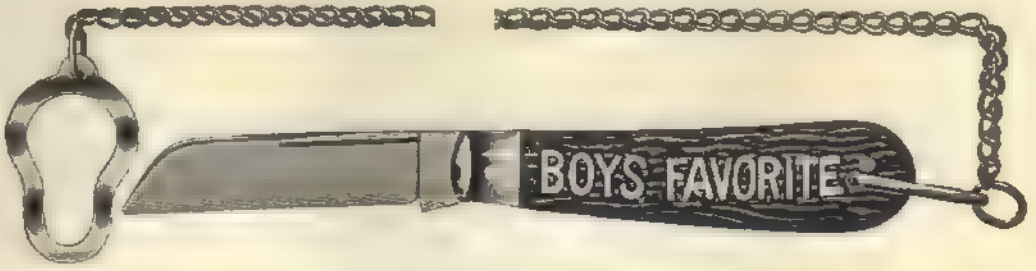
No. 3208—Three Blades, Stag Handle, Brass Lined, Nickel Silver Bolsters, . Per Dozen $15 00

No. 3193 Three Blades, Stag Handle, Brass Lined, Nickel Silver Bolsters Per Dozen. $19 00

Half Dozen in a Box

# Pocket Knives.

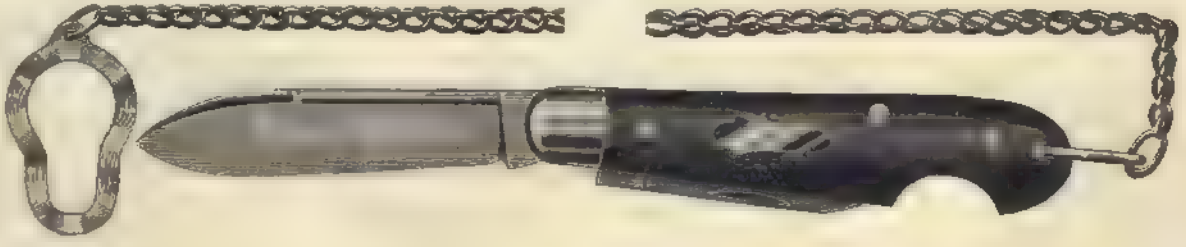
Full Size Cuts.




**No. 01452** One Blade, Iron Handle, with 15 in Nickel Plated Chain. Per Dozen $1.50

**No. 748**—Two Blades, Cocobolo Handle, Steel Lined, Steel Bolster, with 15 in Nickel Plated Chain. Per Dozen $3.50

**No. 01467**—One Blade, Nickel Plated Handle, with 13 in Nickel Plated Chain. Per Dozen $2 00
**No. 02381**—Two Blades, Nickel Plated Handle, with 13 in. Nickel Plated Chain. 3.00



**No. 02352** Two Blades, Ebony Handle, Steel Lined, Polished Steel Bolster, with 15 in Nickel Plated Chain. Per Dozen $4.00

Half Dozen in a Box

# Pocket Knives.

Full Size Cuts.

**No. 2401**—Two Blades, Full Pearl Handle, Brass Lined. . . . . Per Dozen, $6.50

**No. 2490**—Two Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, . . . . . Per Dozen $3.25

**No. 2488** Two Blades, Pearl Handle Brass Lined, Nickel Silver Bolsters Per Dozen $3.25

**No. 4447**—Two Blades Pearl Handle, Brass Lined, Nickel Silver Bolsters, . Per Dozen, $6 50

**No. 2433** Two Blades, Pearl Handle, Brass Lined Nickel Silver Bolsters, . . Per Dozen $8 50

**No. 4579**—Three Blades, Full Pearl Handle, Brass Lined, . Per Dozen $8 50

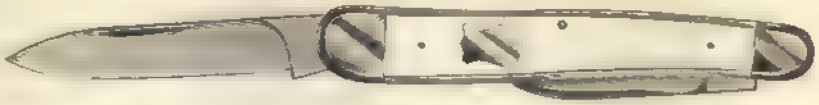
**No. 2674** Three Blades, with Button Hook, Full Pearl Handle, Brass Lined, Per Dozen $8 50

**No. 2597**—Three Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, . Per Dozen $8 50

Half Dozen in a Box

# Pocket Knives.

Full Size Cuts.



**No. 4101** Two Blades, White Bone Handle, Brass Lined, Nickel Silver Bolsters, . Per Dozen $4.00

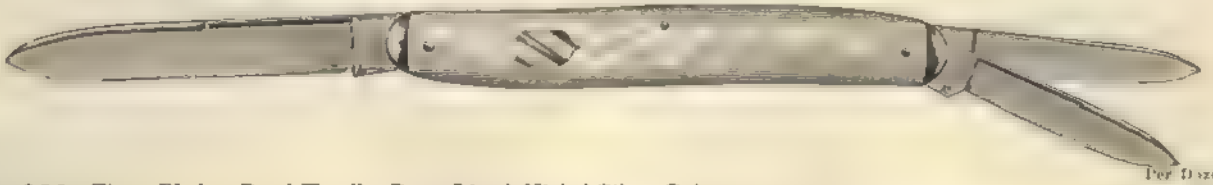
**No. 4103** Two Blades, White Bone Handle, Brass Lined, Nickel Silver Bolsters, . . Per Dozen $4.00

**No. 1112** Three Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters. Per Dozen $9.00

**No. 1109** Three Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, . . . . Per Dozen $8.00

**No. 1378**—Three Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters, . Per Dozen $8 00
**No. 3786**—Three Blades, White Bone Handle, Brass Lined, Nickel Silver Bolsters, . 8 00

**No. 3922** Three Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, Per Dozen $12.00



**No. 880**—Three Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, . Per Dozen $12 00

Half Dozen in a Box

# Pocket Knives.

Full Size Cuts

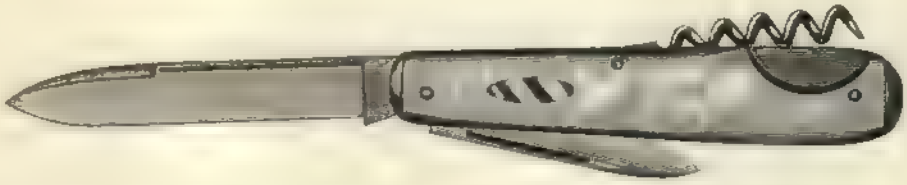
Per Dozen.

**No. 1106** Four Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, . $8.00

Per Dozen

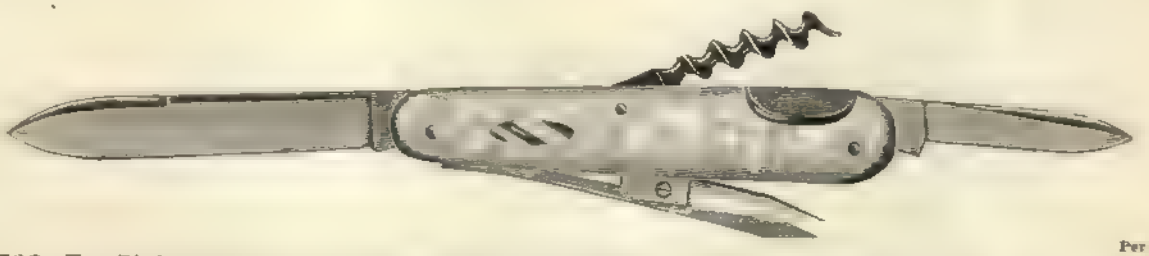
**No. 498**—Two Blades, Champagne Opener, Cigar Clipper and Cork Screw, Nickel Silver Handle, . . . $18.00

**No. 686**—Two Blades, Champagne Opener, Cigar Clipper and Cork Screw, Pearl Handle, Nickel Silver Bolsters, 35.00



Per Dozen.

**No. 785** Two Blades and Cork Screw, Pearl Handle, German Silver Lined, Nickel Silver Bolsters, . . . $32.00

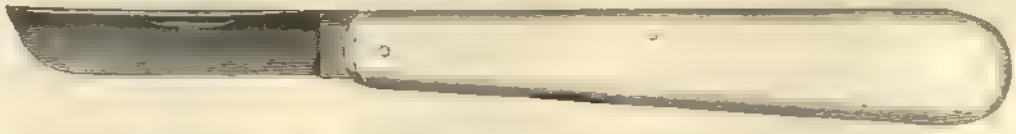


Per Dozen.

**No. 788**—Two Blades, Scissors and Cork Screw, Full Pearl Handle, Nickel Silver Lined, . . $36.00

Per Dozen.

**No. 465**—Corn Knives, One Blade, Full Ivory Handle, Brass Lined, . $10.00



Per Dozen.

**No. 592**—Budding Knives, One Blade, Full Ivory Handle, . . . . . $16.00

Half Dozen in a Box

# Revolvers.

**Young America.**

Double Action, Nickel Plated, Rubber Handle.
Shoots Rim Fire and S. & W. Center Fire Cartridges

| | Each |
|---|---|
| **No. 202**—22 Caliber, Rim Fire, 7 Shot, | $1.75 |
| **No. 302**—32 Caliber, Rim Fire, 5 Shot, | 1.75 |
| **No. 212**—32 Caliber, Center Fire, 5 Shot, | 1.75 |

**Young America Safety.**

Double Action Nickel Plated, Rubber Handle,
Shoots S. & W. Center Fire Cartridges

| | Each |
|---|---|
| **No. 222**—32 Caliber, 5 Shot, | $1.75 |

**New Model, X. L.**

| | Each |
|---|---|
| **No. 522**—22 Caliber Rim Fire Cartridge, 7 Shot, Double Action, Nickel Plated, Rubber Handle, | $1.75 |
| **No. 532**—32 Caliber S. & W. Center Fire Cartridge, 5 Shot, Double Action, Nickel Plated Rubber Handle, | 1.75 |

**H. & R., Double Action.**

Double Action Nickel Plated Rubber Handle
Shoots S. & W. Center Fire Cartridges.

| | Each |
|---|---|
| **No. 252**—32 Caliber, 6 Shot, 2½ in. Barrel, | $1.75 |
| **No. 252½**—32 Caliber, 6 Shot, 4½ in. Barrel, | 2.00 |
| **No. 258**—38 Caliber, 5 Shot, 2½ in. Barrel, | 1.75 |
| **No. 258½**—38 Caliber, 5 Shot, 4½ in. Barrel, | 2.00 |

**H. & R., American.**

Double Action Nickel Plated, Rubber Handle,
Shoots S. & W. Center Fire Cartridges

| | Each |
|---|---|
| **No. 282**—32 Caliber, 6 Shot, 2½ in. Barrel, | $1.75 |
| **No. 282½**—32 Caliber, 6 Shot, 4½ in. Barrel, | 2.00 |
| **No. 288**—38 Caliber, 5 Shot, 2½ in. Barrel, | 1.75 |
| **No. 288½**—38 Caliber, 5 Shot, 4½ in. Barrel, | 2.00 |

# Revolvers.

## H. & R. Automatic.

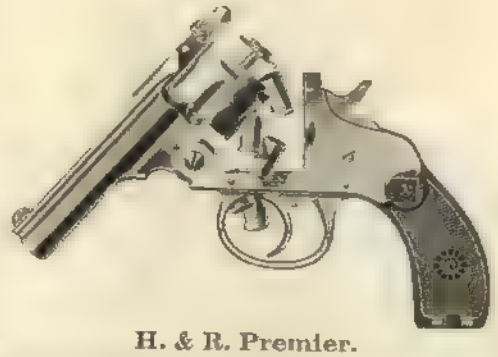
Automatic Shell Ejector, Double Action, Rubber Handle. Shoots S & W Center Fire Cartridges

### Nickel Plated.

| | | Each |
|---|---|---|
| No. 242 | 32 Caliber, 6 Shot, 3½ in Barrel, | $5 50 |
| No. 242½ | 32 Caliber, 6 Shot, 4 in Barrel, | 6 00 |
| No. 248 | 38 Caliber, 5 Shot, 3½ in Barrel, | 5 50 |
| No. 248½ | 38 Caliber, 5 Shot, 4 in Barrel, | 6 00 |

### Blued.

| | | Each |
|---|---|---|
| No. 242B | 32 Caliber, 6 Shot, 3½ in Barrel, | $5 00 |
| No. 248B | 38 Caliber, 5 Shot, 3½ in. Barrel, | 6 00 |



## H. & R. Premier.

Automatic Shell Ejector, Double Action Rubber Handle

### Nickel Plated.

| | | Each |
|---|---|---|
| No. 722 | 22 Caliber Rim Fire Short or Long Cartridges 7 Shot, 3 in Barrel, | $5 50 |
| No. 732 | 32 Caliber S & W Center Fire Cartridge, 5 Shot, 3 in Barrel, | 5.50 |

## H. & R. Hammerless.

### Nickel Plated.

Automatic Shell Ejector, Double Action, Rubber Handle. Shoots S & W. Center Fire Cartridges

| | | Each |
|---|---|---|
| No. 742 | 32 Caliber 5 Shot 3 in Barrel, | $6 50 |
| No. 748 | 38 Caliber, 5 Shot, 3½ in. Barrel, | 6 50 |

### Blued.

Automatic Shell Ejector, Double Action, Rubber Handle. Shoots S & W. Center Fire Cartridges

| | | Each |
|---|---|---|
| No. 742B | 32 Caliber 5 Shot, 3 in Barrel, | $7 00 |
| No. 748B | 38 Caliber, 5 Shot, 3½ in Barrel | 7 00 |

## Iver Johnson.

### Hammer.

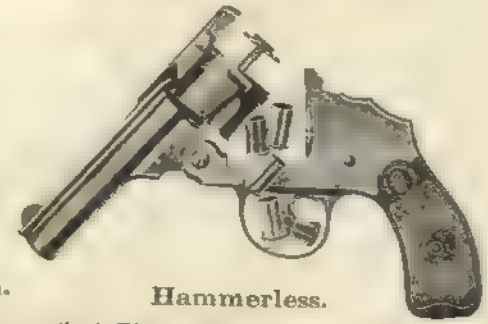
Automatic Shell Ejector, Double Action, Rubber Handle Shoots S & W Center Fire Cartridges

### Nickel Plated.

| | | Each. |
|---|---|---|
| No. 632 | 32 Caliber, 5 Shot, 3 in. Barrel, | $5.50 |
| No. 632½ | 32 Caliber, 5 Shot 4½ in Barrel, | 6 00 |
| No. 638 | —38 Caliber, 5 Shot, 3 in Barrel, | 5.50 |
| No. 638½ | —38 Caliber, 5 Shot, 4½ in. Barrel, | 6.00 |

### Blued.

| | | Each. |
|---|---|---|
| No. 632B | 32 Caliber, 5 Shot, 3 in. Barrel | $6 00 |
| No. 638B | 38 Caliber, 5 Shot, 3 in Barrel, | 6 00 |



### Hammerless.

Automatic Shell Ejector, Double Action, Rubber Handle. Shoots S. & W. Center Fire Cartridges

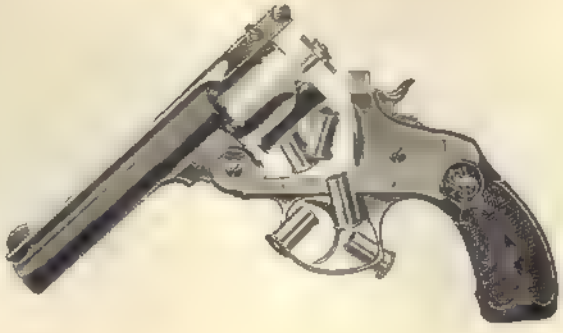
### Nickel Plated.

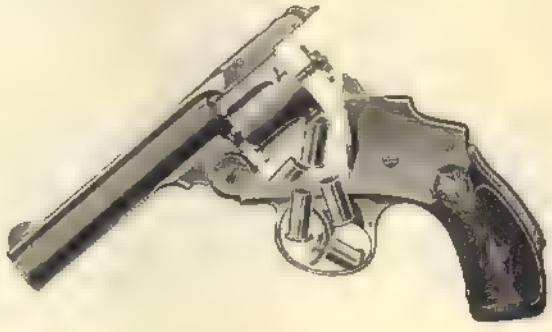
| | | Each |
|---|---|---|
| No. 642 | 32 Caliber, 5 Shot, 3 in Barrel | $6 50 |
| No. 648 | —38 Caliber, 5 Shot, 3 in. Barrel, | 6.50 |

### Blued.

| | | Each |
|---|---|---|
| No. 642B | —32 Caliber, 5 Shot, 3 in. Barrel, | $7 00 |
| No. 648B | —38 Caliber 5 Shot 3 in Barrel, | 7 00 |

# Revolvers.





## Smith & Wesson.

### Hammer.

Automatic Shell Ejector, Double Action, Shoots S & W. Center Fire Cartridges.

**Nickel Plated.**

| | | Each |
|---|---|---|
| **No. 132** | —32 Caliber, 5 Shot, 3½ in Barrel, Rubber Handle, | $12 50 |
| **No. 132P** | 32 Caliber, 5 Shot, 3½ in. Barrel, Pearl Handle, | 14 50 |
| **No. 138** | —38 Caliber, 5 Shot, 3½ in. Barrel. Rubber Handle, | 13.50 |
| **No. 138P** | 38 Caliber, 5 Shot, 3½ in. Barrel. Pearl Handle. | 15 50 |

### New Departure, Hammerless.

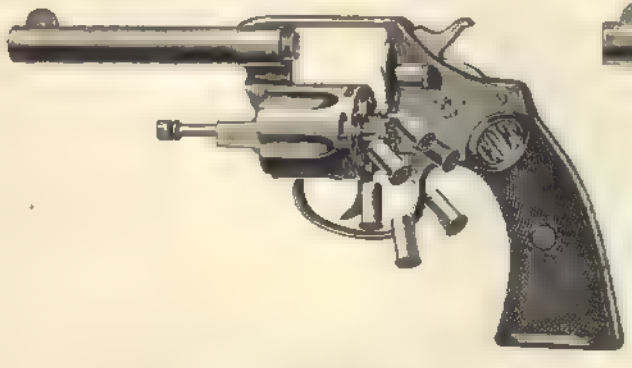
Automatic Shell Ejector, Double Action, Shoots S. & W. Center Fire Cartridges.

**Nickel Plated.**

| | | Each. |
|---|---|---|
| **No. 142** | —32 Caliber, 5 Shot, 3½ in. Barrel, Rubber Handle, | $13.50 |
| **No. 142P** | 32 Caliber, 5 Shot, 3½ in. Barrel. Pearl Handle, | 15 50 |
| **No. 148** | 38 Caliber, 5 Shot, 3½ in. Barrel, Rubber Handle, | 14 50 |
| **No. 148P** | —38 Caliber, 5 Shot, 3½ in. Barrel. Pearl Handle. | 16 50 |

**Blued.**

| | | |
|---|---|---|
| **No. 152** | —32 Caliber, 5 Shot, 3½ in. Barrel, Rubber Handle, | $13 50 |
| **No. 158** | —38 Caliber, 5 Shot, 3½ in. Barrel, Rubber Handle, | 14.50 |



### Colt's, New Police.

Shell Ejector, Double Action. Rubber Handle.

| | | Each |
|---|---|---|
| **No. 82** | —32 Caliber, C. F, 6 Shot, 4 in. Barrel, Nickel Plated, | $15.00 |
| **No. 82B** | —32 Caliber, C. F., 6 Shot, 4 in Barrel, Blued, | 15 00 |

Shoots 32 Caliber Short and Long Colt's Cartridges.

| | | |
|---|---|---|
| **No. 182B** | —32 Caliber, C. F., 6 Shot, 4 in. Barrel, Blued. | 15.00 |

Shoots 32 Caliber Colt's New Police Special and 32 Caliber S. & W Short and Long Cartridges

### Colt's, New Army.

Shell Ejector, Double Action, Rubber Handle.

| | | Each. |
|---|---|---|
| **No. 68B** | —38 Caliber, C, F., 6 Shot, 4½ in. Barrel, Blued, | $16.00 |
| **No. 68½B** | —38 Caliber, C. F., 6 Shot, 6 in. Barrel, Blued. | 16.00 |
| **No. 71B** | —41 Caliber. C. F., 6 Shot, 6 in. Barrel, Blued, | 16.00 |

Shoots 38 Caliber Short and Long, or 41 Caliber Short and Long Colt's D. A Cartridges.

# Revolvers.

**Colt's New Pocket.**

Shell Ejector, Double Action, Blued Steel Rubber Handle, Shoots Colt's Center Fire Short and Long Cartridges

| | Each |
|---|---|
| **No. 72B** —32 Caliber, 6 Shot, 3½ in. Barrel, | $14.00 |
| **No. 72½B**—32 Caliber, 6 Shot, 6 in Barrel, | 15.00 |

**Colt's, Bisley Model.**

Shell Ejector, Single Action, Blued Steel, Rubber Handle, Shoots Colt's 38 Caliber N. L. M. Rifle Cartridges and Colt's 41 Caliber Short and Long Center Fire Cartridges.

| | Each |
|---|---|
| **No. 98B**—38-40 Caliber, 6 Shot, 7½ in. Barrel, | $16.00 |
| **No. 101B**—41 Caliber, 6 Shot, 7½ in Barrel, | 16.00 |

**Colt's Double Action.**

Shell Ejector, Blued Steel, Rubber Handle, Shoots Colt's Center Fire Short and Long Cartridges

| | Each. |
|---|---|
| **No. 38B**—38 Caliber, 6 Shot, 4½ in Barrel, | $14.00 |

**Colt's Automatic.**

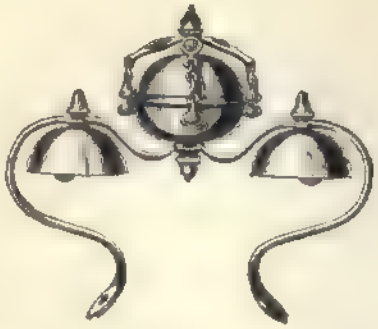
Shoots Colt's Automatic Center Fire Rimless Cartridges.

| | Each. |
|---|---|
| Colt's Automatic, 38 Caliber, 6 in, Barrel, Blued Steel, | $25.00 |

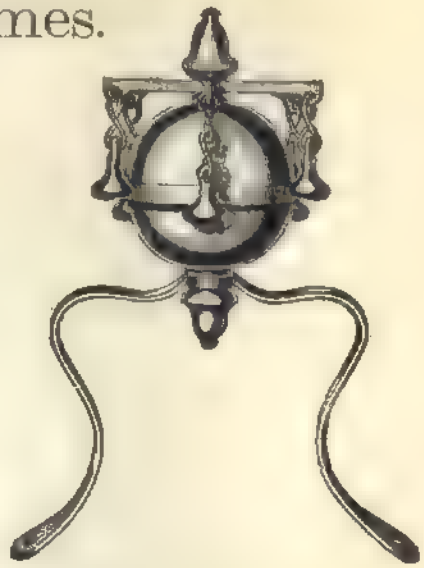
The action of this pistol is automatic except that the trigger is pulled for firing each shot. The arm can be discharged at the rate of 5 shots per second, the cartridges being automatically supplied from a detachable magazine inserted in the handle of the pistol.

After the pistol is charged with a loaded magazine, the opening in the breech is made by and bringing the first cartridge into the chamber. On pulling the trigger the cartridge is fired, the empty shell is extracted, a new cartridge is carried into the chamber, all these operations taking place automatically without any manipulation of the arm. This automatic operation of the pistol is effected by the recoil of the moving parts, and as a consequence, the recoil is so absorbed in being utilized that it has not the usual disturbing effect.

# Saddle Chimes.



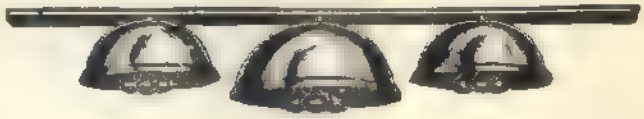
No. 02 Russian, Nickel Plated. Each $2 50



No. 435—Russian, Nickel Plated, . Each $2 50

# Shaft Chime Sleigh Bells.

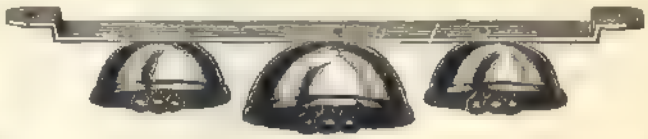
No. 105—Three Nickel Plated Bell Metal Bells, Leather Strap. Per Pair. $0 70



No. 100 Three Nickel Plated Steel Bells, Japanned Steel Strap, . . . Per Pair $0.70

No. 102—Three Brass Plated Steel Bells, Japanned Steel Strap. . . . .70

No. 240 Three Nickel Plated Bell Metal Bells, Nickel Plated Brass Strap, . . Per Pair $2 70



No. 33—Three Nickel Plated Bell Metal Bells, Nickel Plated Brass Strap, . . . Per Pair $1 80

No. 222 Four Nickel Plated Swiss Bells, Harmonized, Nickel Plated, Steel Strap, . Per Pair $2.70

No. 065 Four Nickel Plated Bell Metal Bells, Harmonized, Japanned Steel Strap, . Per Pair $2.70

No. 122 Four Nickel Plated Steel Bells, Chimed, Japanned Iron Strap, . . . . Per Pair $1 10

No. 21 Four Nickel Plated Swiss Bells, Harmonized, Japanned Iron Strap, . . . 2 70

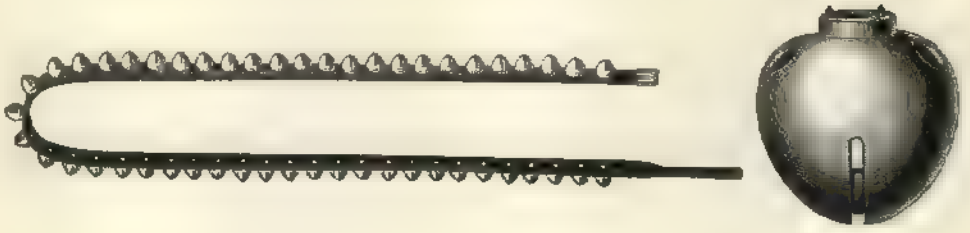
No. 9½—Four Nickel Plated Swiss Bells, Harmonized, Nickel Plated Brase Strap, . . Per Pair $3.00

No. 9 —Four Nickel Plated Swiss Bells, Tuned, Nickel Plated Brass Strap, . . . 4.20

# Sleigh Bells.

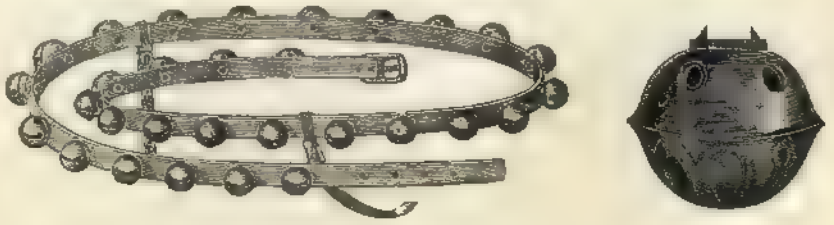
### Body Strap, Arctic Bells.

| | Per String. |
|---|---|
| No. 131—24 1⅛ in. White Metal Bells, Black Leather Strap, | $2.60 |
| No. 132—30 1⅛ in. White Metal Bells, Black Leather Strap, | 2.90 |
| No. 133 30 1¼ in White Metal Bells, Black Leather Strap, | 3 30 |
| No. 193—30 1¼ in. White Metal Bells, Extra Polish, Black Leather Strap, | 3.30 |



### Body Strap, Globe Bells.

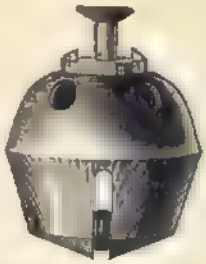
| | Per String |
|---|---|
| No. 341—30 No. 2 White Metal Bells, Black Leather Strap, | $3.00 |
| No. 1930—30 No. 2 Oroide Finish Bells, Black Leather Strap, | 3.00 |
| No. 3410—30 No. 2 Nickel Plated Bells, Black Leather Strap, | 3 80 |
| No. 194—36 No. 2 Nickel Plated Bells, Black Leather Strap, | 4.30 |
| No. 195—42 No. 2 Nickel Plated Bells, Black Leather Strap, | 4.60 |



### Body Strap, Rim Bells.

| | Per String |
|---|---|
| No. 6020 24 Common Tinned, Rim Bells, 16 No 2, 8 No 3, on Black Leather Strap | $2 30 |
| No. 6021 30 Common Tinned, Rim Bells, 20 No 2, 10 No 3, on Black Leather Strap | 2 50 |
| No. 169—20 No. 3, Common Tinned Bells, Black Leather Strap, | 2 00 |
| No. 177—30 No. 2, Common Tinned Bells, Black Leather Strap, | 2.30 |
| No. 181—30 No. 3, Common Tinned Bells, Black Leather Strap, | 2 50 |
| No. 209—30 No. 4, Nickel Plated Bells, Black Leather Strap, | 4 50 |

# Sleigh Bells.



**Body Strap, Beveled Bells.**

| | | Per String. |
|---|---|---|
| No. 304— | 30 No 2 White Metal Bells, Black Leather Strap, | $3.00 |
| No. 311 | 36 No 2 Nickel Plated Bells, Black Leather Strap, | 4 30 |

**Body Strap, Wrought Steel, Arctic Bells.**

| | | Per String |
|---|---|---|
| No. 37— | 30 1¼ in Nickel Plated Bells, Black Leather Strap, | $2.20 |
| No. 43— | 30 1¼ in Nickel Plated Bells, Black Leather Strap, | 2.50 |
| No. 633 | 36 1¼ in. Nickel Plated Bells, Black Leather Strap, | 2.60 |

## Loose Sleigh Bells.

**Round, Polished Brass.**

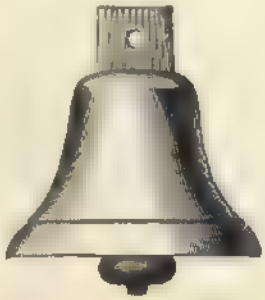
| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Diameter, Inches, | 1 | 1⅛ | 1⅛ | 1¼ | 1⅜ | 1⅜ | 1½ | 1⅝ | 1¾ | 2 |
| Per Dozen, | $0.38 | .52 | .68 | .82 | .98 | 1.10 | 1.35 | 1.57 | 1.80 | 2 25 |

## Horse Car Bells.

Per Pound.

No. 04—3½ in., Diameter of Mouth, Tinned, . . . . . $0.50

## Open House Bells.



**Brass, Half Polished.**

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Diameter, Inches, | 2⅛ | 2⅜ | 2⅝ | 2⅞ | 3¼ | 3½ | 3¾ |
| Per Pound, | $0.44 | .44 | .44 | .44 | .44 | .44 | .44 |

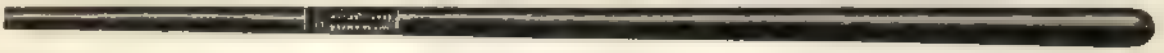
**White Metal, Polished.**

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|
| Diameter, Inches, | 2⅛ | 2⅜ | 2⅝ | 2⅞ | 3¼ | 3½ | 3¾ |
| Per Pound, | $0.46 | .46 | .46 | .46 | .46 | .46 | 46 |

# Buggy Whips.

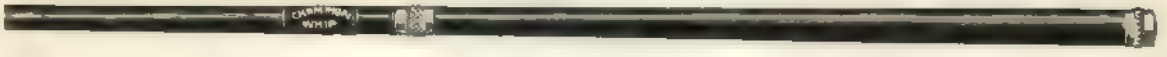
Per Dozen

**No. 10**—5 ft. (7 ft Full Length) Java, Platted Through, Japan Cap, Loop Snap. Packed Assorted, One Black and Two Imitation Gut Colors. . . . . $3.30



Per Dozen

**No. 20** 5½ ft., Java, Black, Platted Through, Smooth Finish, Loop Snap. . . . . $1.50
**No. 20** 6 ft., Java, Black, Platted Through, Smooth Finish, Loop Snap. . . . 2.00



Per Dozen.

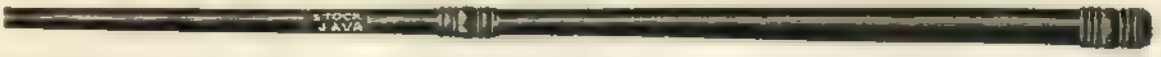
**No. 22**—6 ft. Java Black Platted Through Smooth Finish, One ¾ in. Beaded Nickel Ferrule, Beaded Nickel Head Mount, Boston Snap. . . . . $2.60

Per Dozen

**No. 23**—6 ft Java Platted Through, Smooth Finish, Nickel Head, One 1¾ in Fancy Metal Ferrule, Boston Snap, Packed Assorted, Black, Wine and Imitation Gut Colors. . . . . $2.80

Per Dozen.

**No. 24** 6 ft Java Platted Through, Smooth Finish, Two Four Stitch Hand Made Buttons Rubber Cushion Cap, Boston Snap. Packed Assorted, Black, Brown and Imitation Gut Colors. . . . . $3 00




Per Dozen.

**No. 25** 6 ft. Stock Java, Platted Through, Satin Finish Three 1 in Composition Buttons, Rubber Cushion Cap, Boston Snap. Packed Assorted, Two Black and One Wine Color. . . . $3.70

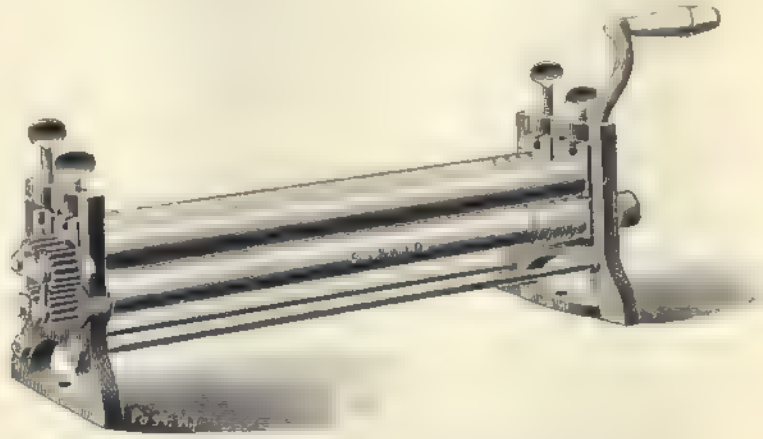
Per Dozen

**No. 26**—6 ft Stock Java, Loaded Handle Platted Through Black Satin Finish, Fancy Composition Head, Six Fancy Composition Buttons, Rubber Cushion Cap, Boston Snap. . . . . $4.80

# Tinners' Tools and Machines.

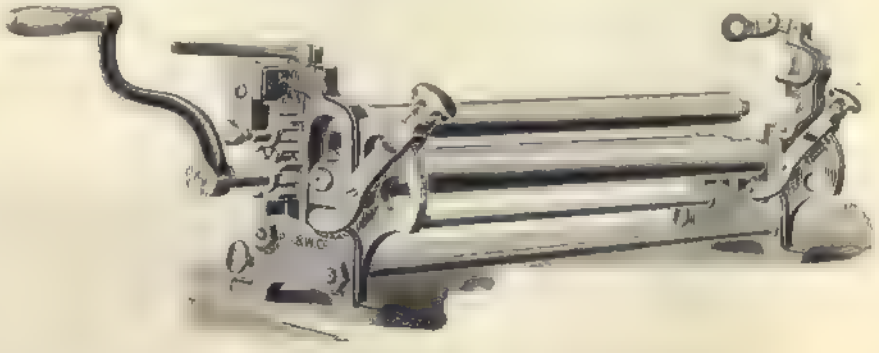
**Pipe Formers.**

| | | Each |
|---|---|---|
| No. 1 | —Stove Pipe Formers, 2 in. Rolls, 30 in Long, | $19.00 |
| No. 2 | —Stove Pipe Formers, 1¾ in Rolls, 30 in. Long, | 18.00 |
| No. 1 | —Tin Pipe Formers, 1½ in. Rolls, 20 in. Long, | 10 00 |
| No. 2 | —Tin Pipe Formers, 1½ in. Rolls, 16 in. Long, | 9.00 |
| No. 5 | —Tin Pipe Formers, 1 in. Steel Rolls, 12 in. Long, | 12.00 |
| | | Per Pair |
| Extra Gears or Cogs for Stove Pipe Formers, | | $0.50 |
| | | Per Set |
| Extra Thumb Screws for Stove Pipe Formers, in Sets of 4, | | $2 00 |



**Pipe Formers, with Compensating Gear.**

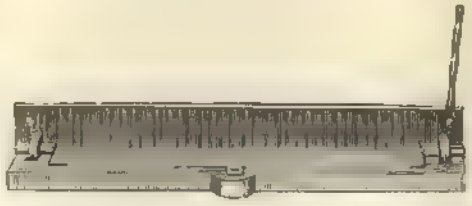
| | | Each |
|---|---|---|
| No. 11 | —Patent Stove Pipe Formers, 1¾ in Rolls 30 in. Long, | $19.00 |
| No. 12 | —Patent Stove Pipe Formers, 2 in. Rolls 30 in. Long, | 20.00 |



**Grannis' Patent Slip Roll Pipe Formers.**

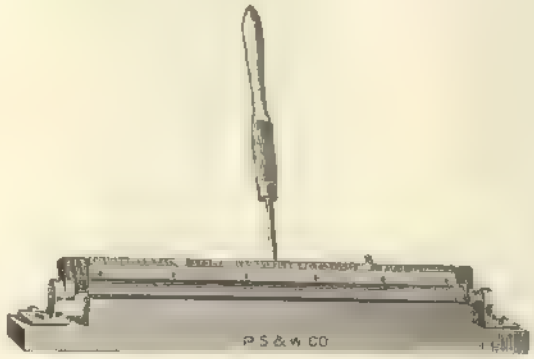
| | | Each |
|---|---|---|
| No. 01 | —Grannis' Slip Roll Stove Pipe Formers, 2 in Rolls, 30 in Long, Back Geared, | $35 00 |
| No. 100 | —Grannis' Slip Roll Stove Pipe Formers 2 in Rolls, 30 in. Long, Single Geared, | 22 00 |
| No. 200 | —Grannis' Slip Roll Stove Pipe Formers 1¾ in Rolls, 30 in. Long, Single Geared, | 20 00 |
| No. 101 | —Grannis' Slip Roll Tin Pipe Formers, 1½ in Rolls, 20 in Long, Single Geared, | 12 00 |

# Tinners' Tools and Machines.



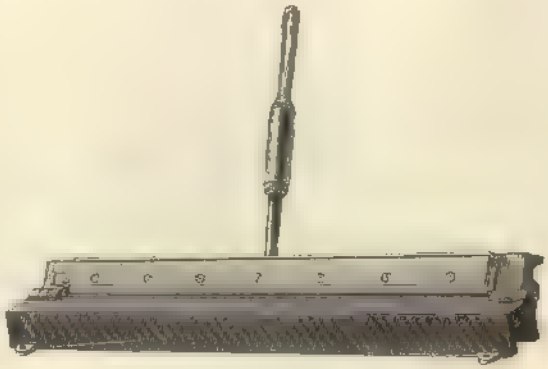
**Sheet Iron Folders, Iron Bottom.**

| | Each |
|---|---|
| **No. 2**—30 in. Iron Bottom Sheet Iron Folders, | $ 7 00 |
| **No. 3**—39 in. Iron Bottom Sheet Iron Folders, | 12 00 |




**Sheet Iron Folders, Wood Bottom.**

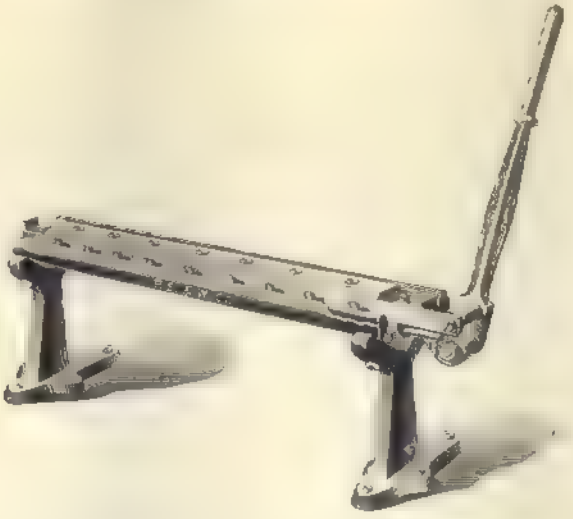
| | Each |
|---|---|
| **No. 0**—48 in. Wood Bottom Sheet Iron Folders. | $20 00 |
| **No. 1**—30 in. Wood Bottom Sheet Iron Folders. | 10 00 |



**Stow's Improved Sheet Iron Folders.**

| | Each |
|---|---|
| **No. 10**—30 in. Stow's Improved Sheet Iron Folders. | $10 00 |
| **No. 15**—42 in. Stow's Improved Sheet Iron Folders, | 18 00 |
| **No. 20**—60 in. Stow's Improved Sheet Iron Folders, | 25.00 |

# Tinners' Tools and Machines.



## Champion Sheet Iron Folders.

| | Each |
|---|---|
| **No. 11**—Champion Sheet Iron Folders. Folds Iron No. 26, Turns Locks from $\frac{3}{16}$ to $\frac{1}{2}$ in., . . . . . | $12.00 |

This Folder has an improvement consisting of a round steel rod, against which the fold is completed, thereby preventing the edge of the frame from being worn off, thus rendering the folding plate more durable and insuring a lock of uniform width the entire length as variations in the hardness of the material will have no effect upon the uniformity of the lock

## Wright's Sheet Iron Folders.

| | Each. | | Each. |
|---|---|---|---|
| **No. 0**—42 in. Wright's Patent Sheet Iron Folders, | $20.00 | **No. 12**—30 in. Wright's Improved Sheet Iron Folders, . . . . . | $15.00 |
| **No. 1**—30 in. Wright's Patent Sheet Iron Folders, | 12.00 | | |

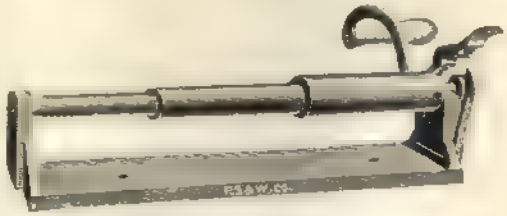
Nos. 0 and 1 will Turn Locks $\frac{1}{16}$ and $\frac{1}{8}$ in

No. 12 Wright's Improved Folders will turn Locks $\frac{1}{16}$, $\frac{1}{8}$ and $\frac{3}{16}$ in. in any length of Sheet. To turn an edge longer than the length of the Machine use the round Rod, placing it so that the Sheet will be put into the Machine over it and turn the Folding Bar against its round surface, making a slight bend the entire length of the Sheet, and repeat this operation of bending until the Lock is finished or far enough to come down in the ordinary way. In turning edges on long Sheets it will be well to turn the edge a little at first and repeat the process of bending until finished. To turn wider Locks than the depth of the Folding Plate use the Steel Stripe under the plate to increase the width, and operate the Machine in the same manner as without them.

# Tinners' Tools and Machines.

**Wire Bail Formers.**

| | Each |
|---|---|
| Miller's Wire Bail Formers. | $1.50 |

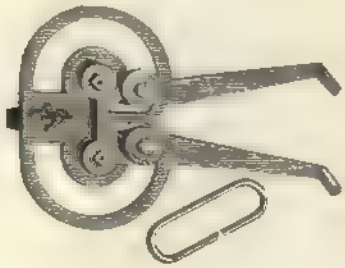


**Wire Ring Formers.**

| | Each |
|---|---|
| Stow's Wire Ring Formers or Winders. | $3 00 |

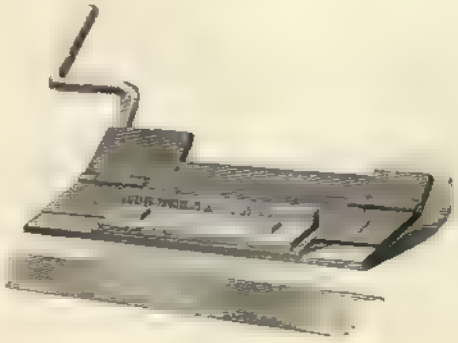
**Wire Cutters and Bail Formers.**

| | Each. |
|---|---|
| Van Bramer's Patent Wire Cutter and Bail Formers. Cuts ½ in Wire and Smaller . | $10 00 |



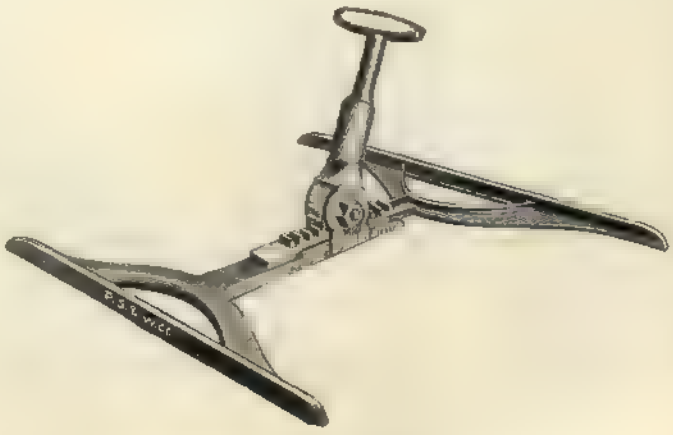
**Oval Handle Formers.**

| | Each. |
|---|---|
| Miller's Oval Handle Formers, for Forming Oval Rings of Wire, . . . . . | $3.00 |



**Cleat Folders.**

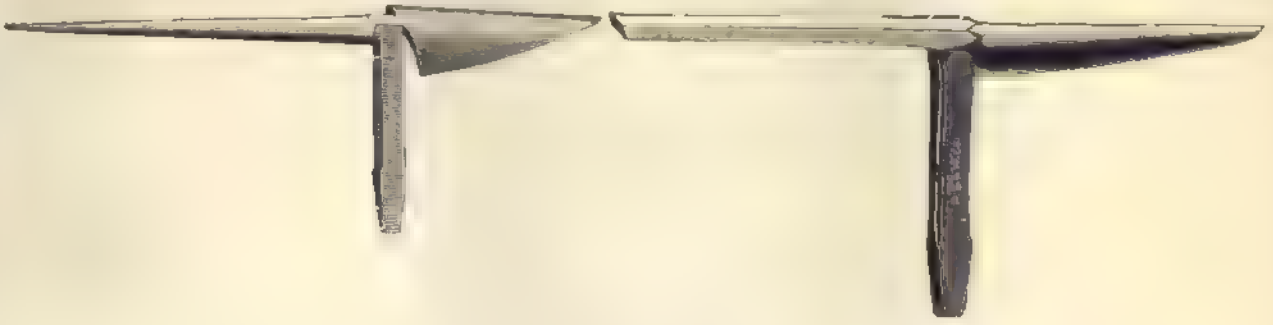
| | Each. |
|---|---|
| No. 1— Miller's Cleat Folders, for making Cleats for Roofing, . . . . . | $2 00 |



**Boiler Expanders.**

| | Each. |
|---|---|
| No. 5—Boiler Expanders, for holding Bodies of Wash Boilers in place while Bottoms are being Double Seamed, . . . . . | $1.75 |

# Tinners' Tools and Machines.



## Tinners' Stakes.

Wrought Iron, Steel Face.

### Blowhorn.

| | Each. |
|---|---|
| Common Blowhorn, Large End 9 in., Small End 17½ in., | $5.00 |

### Beakhorn.

| Nos. | 1 | 2 | 4 |
|---|---|---|---|
| Weight Each, Lbs., | 45 | 40 | 30 |
| Each, | $15.00 | 13.25 | 10 00 |

### Needle Case.

| | Each. |
|---|---|
| Needle Case, Flat End 8 in., Small End 10½ in., | $2 25 |

### Candle Mould.

| | Each. |
|---|---|
| Candle Mould, Small End 18 in., Horn 8⅝ in., | $2.75 |

### Creasing.

| | Each. |
|---|---|
| Creasing, without Horn, Length 14¼ in., | $4.00 |

### Creasing, with Horn.

| | Each. |
|---|---|
| Creasing, with Horn Round End 9½ in., Flat End 6½ in., | $4.50 |

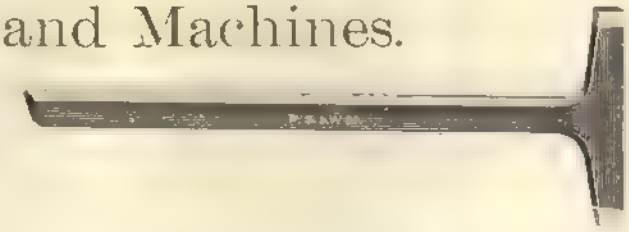
### Double Seaming.

| | Each |
|---|---|
| No. 1—Double Seaming, Large End 17 in., Small End 12 in., | $9.00 |
| No. 2—Double Seaming, Each End 11 in., | 8.00 |

## Hollow Mandrel.

| | Each |
|---|---|
| Hollow Mandrel, Cast Iron, Entire Length 3 ft. 4 in., | $5.50 |

# Tinners' Tools and Machines.



## Tinners' Stakes.

### Conductor.

Polished Faces.

| | Each |
|---|---|
| **No. 0**—Conductor, Wrought Iron Each End 14 in., | $6 00 |
| **No. 1**—Conductor, Cast Iron, Large End 15 in., Small End 11½ in., | 4.00 |
| **No. 2** Conductor, Cast Iron, Large End 14 in., Small End 10 in., | 3 00 |

### Mandrel.

Cast Iron, Polished Faces.

| | Each |
|---|---|
| **No. 0**—Mandrel, 3 ft. 4 in. Long to the Standard, | $6.00 |
| **No. 1**—Mandrel, 2 ft. 10 in. Long to the Standard, | 5.00 |
| **No. 2**—Mandrel, 2 ft. 6 in. Long to the Standard, | 4.00 |
| **No. 3**—Mandrel, 2 ft. 3 in. Long to the Standard, | 3.00 |

### Bottom.

Wrought Iron, Steel Face

| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Width, Inches, | 1¾ | 1½ | 1¼ | 1 |
| Each, | $1 00 | .80 | .75 | .50 |

### Hatchet.

Wrought Iron, Steel Face

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Length of Blade, In., | 16 | 14½ | 13 | 11 | 9 | 7 |
| Each, | $5 00 | 4 25 | 3.50 | 2 75 | 2 25 | 1.75 |

### Common Square.

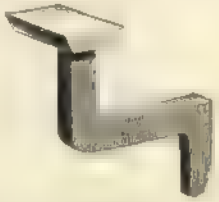
Wrought Iron, Steel Face

| | Each |
|---|---|
| Common Square, Steel Face 2⅝x4½ in., | $3.00 |
| Large Square, Steel Face 3½x5½ in., | 7 00 |
| Small Square, Steel Face 1½x2⅝ in., | 2 00 |

### Coppersmiths' Square.

Wrought Iron, Steel Face.

| | Each |
|---|---|
| Coppersmiths' Square, Steel Face 2⅝x4½ in., | $3 50 |



### Bevel Edge Square.

Wrought Iron Steel Face.

| | Each |
|---|---|
| **No. 1**—Bevel Edge Square, Steel Face 3 x5 in., | $6.00 |
| **No. 2** Bevel Edge Square, Steel Face 2½x4½ in., | 5.00 |

### Round Head.

Cast Iron, Polished Face

| | Each |
|---|---|
| Round Head, | $1 25 |

# Tinners' Tools and Machines.

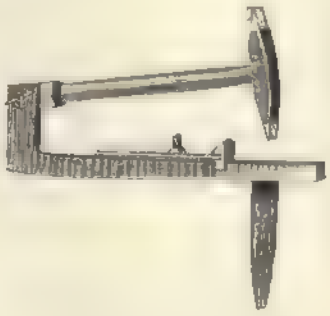
Tinners' Stakes.

## Tea Kettle.

| | Each |
|---|---|
| Tea Kettle, Wrought Iron, Polished Faces, with Four Steel Heads, | $15.75 |
| Extra Steel Heads, | 1 75 |

## Double Seaming.

| | Each |
|---|---|
| Double Seaming, Cast Iron, Polished Faces, with Four Heads, | $9.00 |
| Extra Heads, | 1 50 |



## Colander Swedges.

| | Each |
|---|---|
| Colander Swedges, | $4.75 |

## Square Pan Swedges.

| | Each |
|---|---|
| Square Pan Swedges, | $5.00 |

## Creasing Swedges.

| | Each |
|---|---|
| Creasing Swedges, | $5.25 |

Square Pan Folders.

| | Each |
|---|---|
| **No. 20**—20 in. Miller's Square Pan Folders, Adjustable Gauge. | $5 00 |

## Square Pan Turners.

| | Each |
|---|---|
| **No. 1**—20 in. Steel Square Pan Turners, | $2.50 |
| **No. 2** 15 in. Steel Square Pan Turners, | 2.00 |

## Square Pan Formers.

| | Each |
|---|---|
| **No. 2**—Whitney's Square Pan Formers, 20 in. Steel Blade, | $2 50 |

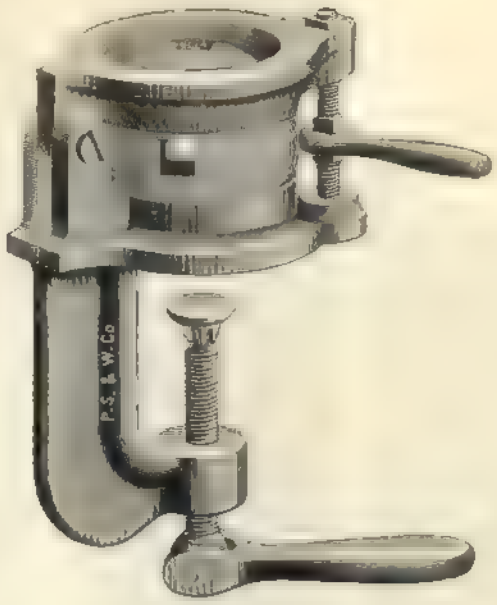
# Tinners' Tools.

**Bench Plates.**

| | Each. |
|---|---|
| **No. 1**—37x8 in., Cast Iron, Polished, | $5.00 |
| **No. 2**—30x8 in., Cast Iron, Polished, | 3.00 |

**Bench Plates.**

| | Each. |
|---|---|
| **No. 3**—9x9 in., Improved Bench Plates, Cast Iron, Polished, | $3.50 |



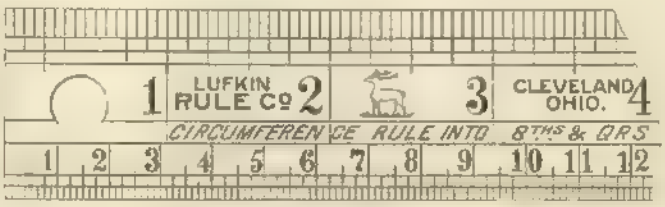

**Shear Holders.**

| | Each. |
|---|---|
| **No. 5**—Stow's Improved Shear Holders with Clamp, | $3.00 |

**Magic Pattern Rules.**

| | Each. |
|---|---|
| **No. 5**—Magic Pattern Rules, Steel, Nickel Plated, with Chart, | $5.00 |

The Magic Pattern Rule is a most convenient and useful tool for laying out Elbow Patterns, and in connection with the Magic Chart, all kinds of flaring, oval, cylindrical, cone shaped vessels, etc., can be laid out. It can also be used for a Straight Edge Rule, Circumference Rule and Trammel




**Tinners' Bench Rules.**

| | Each. |
|---|---|
| **No. 10**—3 ft., Plain, One Side Circumference Rule Opposite Side Table of Measurements | $5 00 |
| **No. 20** 3 ft., Nickel Plated, One Side Circumference Rule Opposite Side Table of Measurements. | 5 50 |

# Tinners' Tools.

## Tinners' Snips.

Regular Pattern

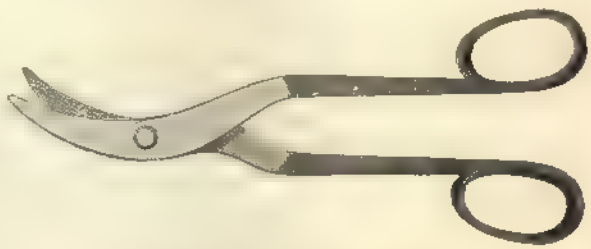
**P. S. & W. Co.'s.**

| Nos. | 6½ | 7 | 8 | 9 | 10 | 11 |
|---|---|---|---|---|---|---|
| Cut, Inches, | 4½ | 4 | 3½ | 3 | 2½ | 2 |
| Each | $3 00 | 2.50 | 2 00 | 1.50 | 1 40 | 1.25 |

**Standard.**

| Nos. | 6½ | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|
| Cut, Inches, | 4½ | 4 | 3½ | 3 | 2½ |
| Each, | $3 00 | 2 50 | 2 00 | 1.50 | 1 40 |

Right Hand Snips cut upon the right of the blade. Left Hand Snips cut upon the left of the blade, but all are used with the Right hand. Left Hand are always sent unless Right are named in the order.

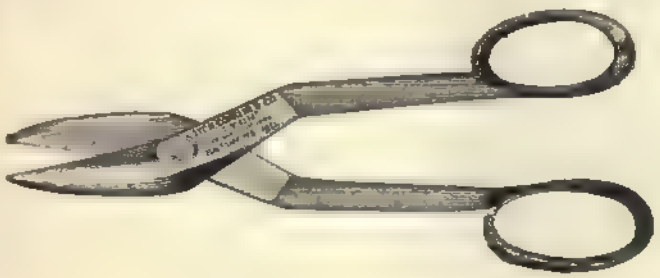


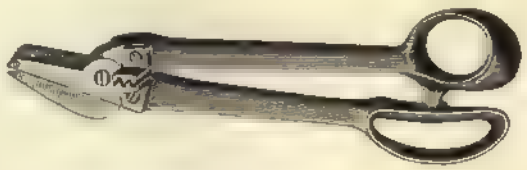
## Circular.

| Nos. | 7 | 8 | 9 | 10 |
|---|---|---|---|---|
| Each, | $3.50 | 3.00 | 2.50 | 2 25 |

## Hawk's Bill Circular.

| No. | 15 |
|---|---|
| Each, | $3 00 |





## Lyon.

For Cutting Scrolls and Circles.

| Nos. | 17 | 18 | 19 |
|---|---|---|---|
| Cut, Inches, | 4 | 3½ | 3 |
| Each, | $2 50 | 2 00 | 1 50 |

## Berridge Double Cutting Shears.

| | | Each. |
|---|---|---|
| No. 2 | Berridge Double Cutting Shears and Pipe Crimpers, 13 in. Long, | $3.00 |

## Bench Shears.

| Nos. | 00 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|---|
| Cut, Inches, | 12 | 10½ | 9 | 8½ | 8 | 8 | 7 | 6 |
| Each, | $13 50 | 12 00 | 8 00 | 7.00 | 6 00 | 5 00 | 4.00 | 3.50 |

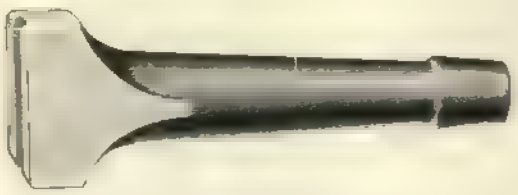
# Tinners' Tools.

**Tinners' Rivet Sets and Headers, Forged Steel, Polished and Blued.**

| Nos. | 00 | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|---|
| For Iron Rivets, Lbs. | 14 | 10 & 12 | 8 | 6 | 4 & 5 | 2½ & 3 | 1½ & 2 | 1½ |
| Each. | $0 75 | .75 | .63 | 63 | 50 | .50 | .37 | 37 |

**Farmers' Rivet Sets and Headers, Japanned, Polished Face.**

| Nos. | 7 | 8 | 9 |
|---|---|---|---|
| For Rivets, Nos | 7 | 8 | 9 |
| Per Dozen, | $5.00 | 5 00 | 5 00 |

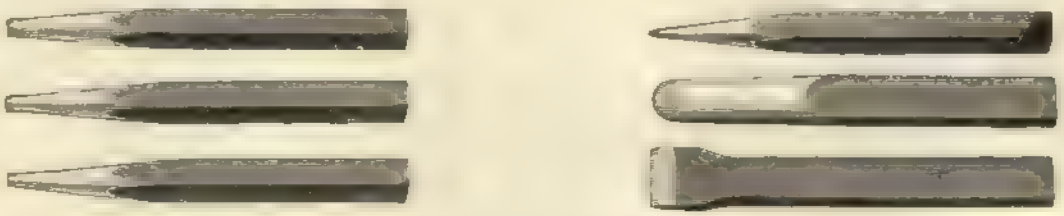


**Hand Groovers, Forged Steel.**

| Nos. | 00 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|---|
| Each. | $0 75 | 75 | 63 | .63 | .50 | .50 | 37 | .37 | .25 | .25 |

**Hollow Punches, Forged Steel.**

| Inches. | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 1 3/8 | 1 1/2 | 1 5/8 | 1 3/4 | 2 | 2 1/4 | 2 1/2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Each | $0 58 | 50 | 63 | 75 | .88 | 1 00 | 1.13 | 1 25 | 1 38 | 1 50 | 1 52 | 1 75 | 2 00 | 2 25 | 2.50 |



**Solid Punches in Sets.**

Solid Punches. Cast Steel. In Sets of 4 Punches and 2 Chisels. Per Set $0 72

Solid Punches, Cast Steel, Nos. 0, 1, 2, 3, 4, 5, 6, 7 and 8, . . . . . Per Dozen $1.44

# Tinners' Tools.

## Prick Punches.

| | Per Dozen |
|---|---|
| No. 10 Octagon Solid Cast Steel. | $1 00 |
| No. 12 Round Solid Cast Steel Knurled Center, | $2 00 |

## Center Punches.

| | Per Dozen |
|---|---|
| No. 15—Octagon, Solid Cast Steel. | $1 00 |
| No. 18—Round, Solid Cast Steel Knurled Center, | $2 00 |

## Wire Chisels.

| Inches, | 1/4 | 3/8 | 1/2 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | 1 1/4 | 1 1/2 | 1 3/4 | 2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Each, | $0.08 | 09 | 10 | 11 | .12 | 13 | .14 | 15 | 17 | 20 | 21 | 29 |

## Lantern Chisels.

| Inches, | 1/2 | 1 |
|---|---|---|
| Each, | $0.12 | .20 |

## Scratch Awls.

| | Per Dozen. |
|---|---|
| No. 1—Scratch Awls, Solid Cast Steel. | $1.00 |

## Wire Gauges.

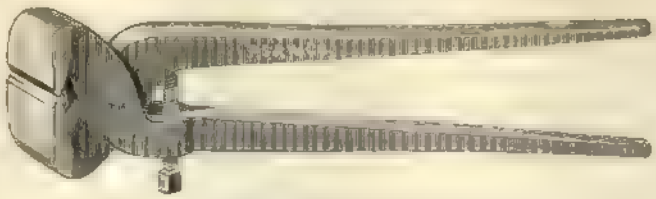
### Round, Stubs' or English Standard.

| | Per Dozen |
|---|---|
| No. 1—Large, Nos. 0 to 36 Gauge, | $20 00 |
| No. 2—Small, Nos. 6 to 36 Gauge, | 12 00 |

### Oblong, Stubs' or English Standard.

| | Per Dozen |
|---|---|
| No. 3 Large, Nos. 0 to 36 Gauge, | $20 00 |

# Tinners' Tools.



**P. S. & W. Co.'s Cutting Nippers.**

Cast Steel, Solid Jaws.

| Nos. | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Inches, | 12 | 11 | 10 | 9 | 8 |
| Per Pair. | $2.25 | 2 00 | 1.50 | 1 40 | 1.00 |

**Acme Cutting Nippers.**

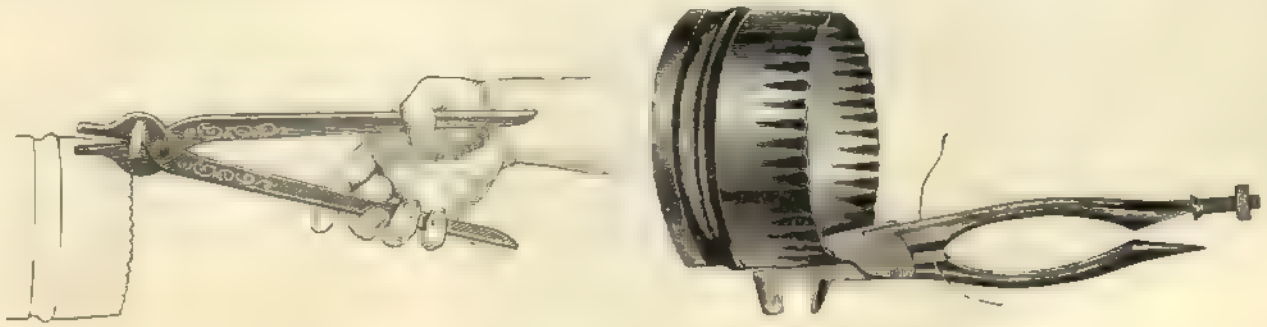
Cast Steel, Interchangeable Jaws.

| Nos. | | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Inches, | | 12 | 11 | 10 | 8 | 5 |
| Per Pair, | | $2.25 | 2 00 | 1.75 | 1.50 | 1.25 |
| Extra Cutters, | Per Pair, | .40 | 40 | 40 | 35 | 35 |
| Extra Set Screws, | Each, | .10 | 10 | 10 | .10 | 10 |

**Carew's Cutting Nippers.**

Cast Steel, Interchangeable Jaws.

| Nos. | | 10 | 12 | 14 |
|---|---|---|---|---|
| Inches, | | 10 | 12 | 14 |
| Per Pair, | | $2 25 | 2 60 | 3 00 |
| Extra Cutters, | Per Pair. | 60 | 65 | 70 |
| Extra Set Screws. | Each. | 12 | 12 | 12 |



**Crimping Tongs.**

Per Dozen

**No. 5**—Packham's Patent Pipe and Metal Crimping Tongs, 13½ in. Long, . . . . . $15 00

Per Dozen.

**No. 10**—Hall's Patent Pipe and Metal Crimping Tongs, 8½ in. Long, . . . . . $7.50

# Portable Forges.

Western Cut.

Hearth 33½x46 in., Fan 14½ in., Height 30 in., Length Over all 54 in.

| | | Each. |
|---|---|---|
| No. 1W | Blacksmiths', with Coal or Wood Tank, without Water Tank, | $50 00 |
| No. 1W | Blacksmiths, with Coal or Wood Tank, with Water Tank, | 55 00 |

Weight without Water Tank 300 Lbs

No. 2W

Each.

**No. 2W** Without Hood, Hearth 23x35 in., Fan 12 in., Height 30 in. . . . $36.00

This Forge has a capacity for heating iron 3 inches through, and is especially adapted to bridge builders, railroads, well drivers, quarries or any outdoor work where a hood is not needed to carry off gas and smoke. It is equipped with Brass Boxes and Oil Cups throughout, also Noiseless Adjustable Steel Friction Clutch

Each.

**No. 3W** With Hood, Hearth 23x35 in., Fan 12 in Height 30 in., . . . . . $40.00

This Forge has a capacity for heating iron 3 inches through, and is especially adapted to inside or shop work, and so arranged that all gas, smoke and sparks are conducted away. It is equipped with Brass Boxes and Oil Cups throughout, also Noiseless Adjustable Steel Friction Clutch. An excellent Forge for horseshoers, small blacksmith shops, boiler makers, etc.

Weight 145 Lbs

No. 5W

Each.

**No. 4W** Without Hood, Hearth 22 in., Fan 9 in., Height 33 in., . . . . . $24.00

This Forge has a capacity to heat iron 2 inches through, and is very desirable for all kinds of outdoor work, where a light, strong portable forge is required It is equipped throughout with Brass Boxes and Oil Cups, also Noiseless Adjustable Steel Friction Clutch. Is of convenient size for moving from place to place

Each.

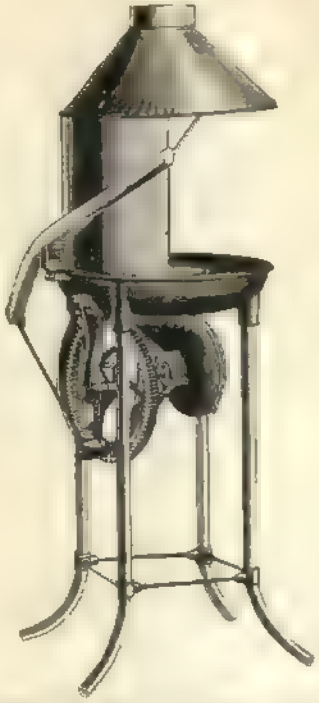
**No. 5W** With Hood, Hearth 22 in., Fan 9 in., Height 33 in., . . . . . $27.00

This Forge has capacity to heat iron 2 inches through, and is especially adapted to tool makers, jewelers, dentists, farmers, small repair shops, etc. Is so arranged that all gas, smoke and sparks are conducted away It is equipped throughout with Brass Boxes and Oil Cups, also Noiseless Adjustable Steel Friction Clutch.

Weight 95 Lbs

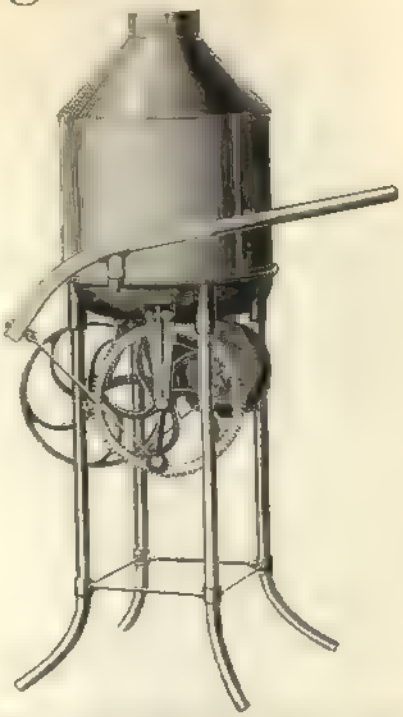
# Portable Forges.

Buffalo Forge Co.'s.



Each

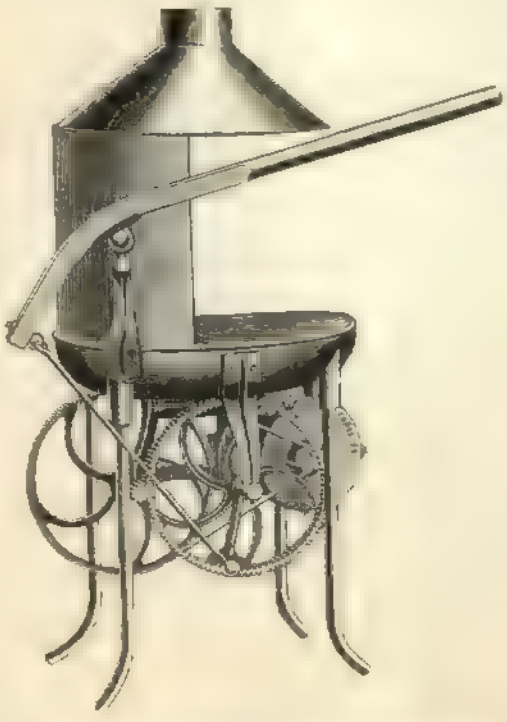
**No. 4** Tool Makers Half Open Hood, Hearth 18 in Diameter, Height 33 in., . . . . $27.00
Weight 75 Lbs.



Each

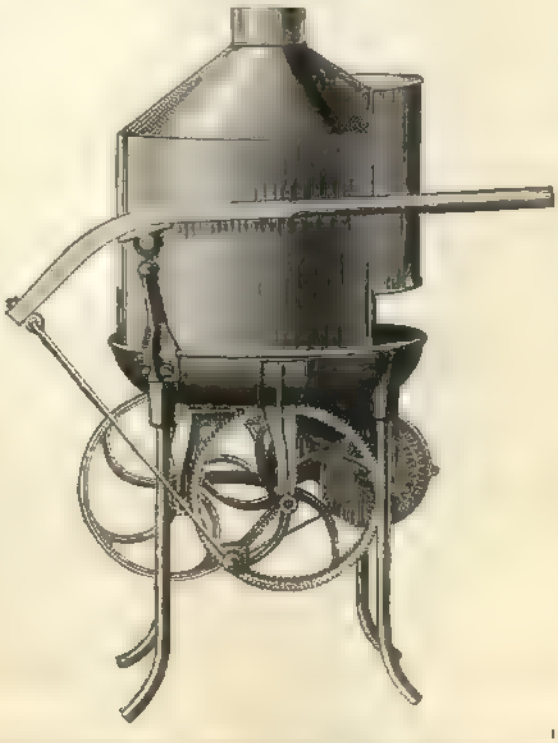
**No. 6** Jewelers Closed Hood Hearth 18 in Diameter, Height 33 in., . . . . $30.00
Weight 80 Lbs

These Forges will produce a welding heat on 1¼ in Iron in five minutes.



Each

**No. 1** Machinists', Half Open Hood, Hearth 21x27 in., Height 29 in., . . . . $40.00
Weight 140 Lbs.



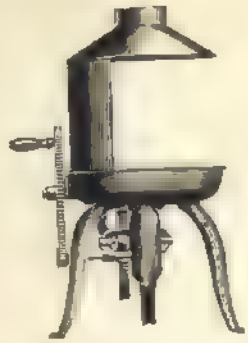
Each

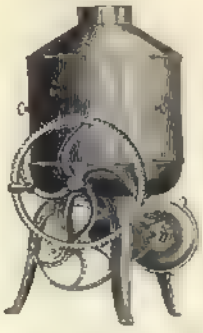
**No. 2** Machinists' Closed Hood Hearth 21x27 in., Height 29 in., . . . . $42.00
Weight 150 Lbs.

These Forges will produce a welding heat on 2¼ to 3 in Iron in from 5 to 10 minutes and on heavier work if required in same proportion of time

# Portable Forges.

Buffalo Forge Co.'s.





Each

**No. 8**—Farmers' Half Open Hood, Hearth 15 in Diameter, Height 15 in., . . . . $18 00
Weight 50 Lbs

**No. 9**—Tinsmiths'. Closed Hood, Hearth 15 in Diameter, Height 15 in., . . . . 20 00
Weight 55 Lbs.

Nos. 8 and 9 Forges are adapted for Farmers, Jewelers, Tinsmiths, Locksmiths, Dentists and various other light work. They will produce a welding heat on 1 in. iron in ten minutes. No. 9 Forge is especially intended for Charcoal Fires, the Closed Hood preventing the escape of Sparks, Smoke or Gas, when starting the fire

Each

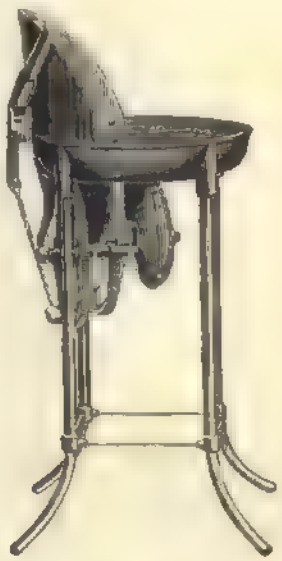
**No. 025**—Riveters, Hearth 18 in Diameter, Height 44 in., . $35 00

No. 025 Forge is especially adapted for Boiler Makers, Construction Work, Miners, Bridge Builders, Railroaders, etc. Gears Fan Case, Bowl, Standard and Legs are detachable. Each part is light and the Forge is thus quickly portable in the highest sense. In buildings of steel construction it may be readily moved to any point for heavy work. The parts can be assembled in two minutes. The Gears are simple and being enclosed in a dust proof case, repairs are practically unknown.

Each

**No. 3**—Boiler Makers', Hearth 21x27 in., Height 29 in., . . . . $36.00
Weight 130 Lbs.

No. 3 Forge has four Swinging Handles, for convenience of moving from place to place, with deep fire place, and is peculiarly adapted for heating Rivets, with capacity guaranteed sufficient for one person to supply from three to four gangs of Riveters. It is especially intended for Boilermakers, Iron Bridge and Ship Builders, Railroads, Tank Builders, Railroad Contractors, Miners, etc.



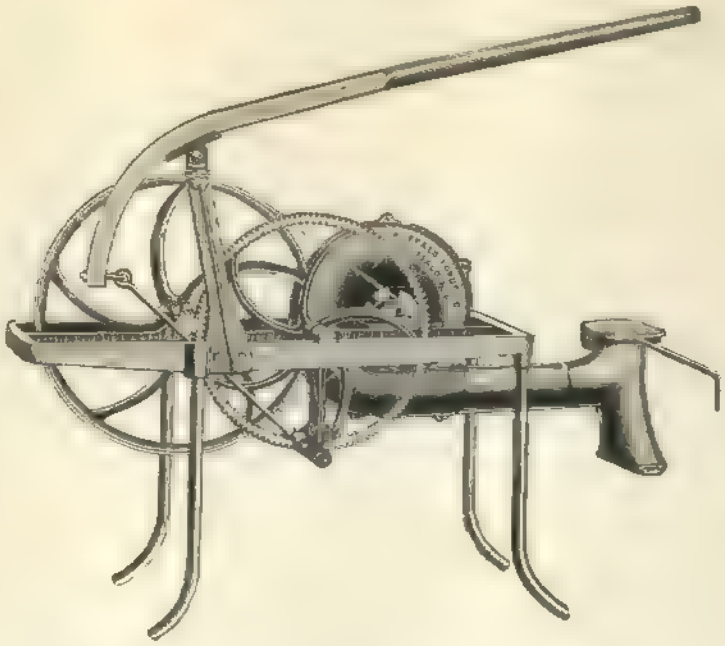
Each

**No. 5**—Miners', Hearth 18 in Diameter Height 33 in., . . . . $24.00
Weight 70 Lbs

No. 5 Forge will produce a welding heat on 1½ in iron in five minutes and on heavier work, if required, in the same proportion of time.

# Blacksmiths' Hand Blowers.

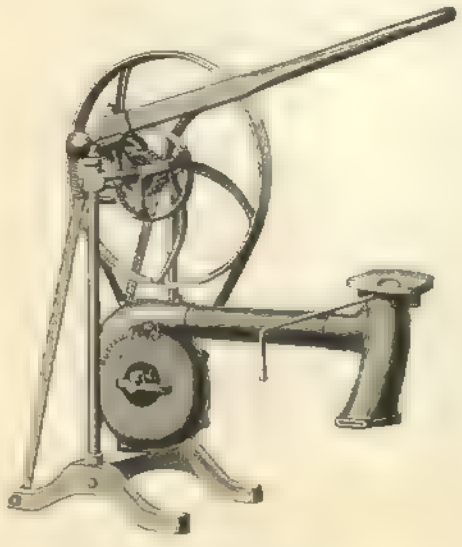
Buffalo Forge Co.'s.

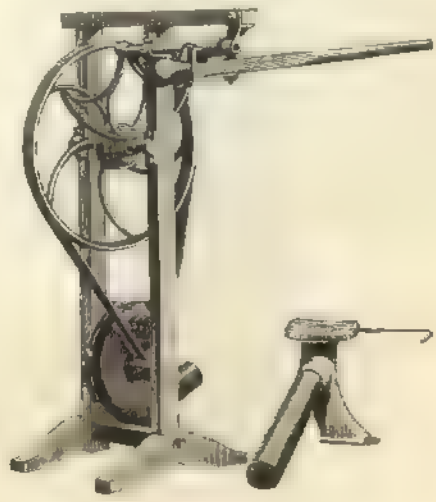


| | Each |
|---|---|
| **No. 2**—Height 35 in., Length 32 in., without Tuyere. Weight 130 Lbs. | $30 00 |
| **No. 2**—Height 35 in., Length 32 in., with Tuyere, Weight 150 Lbs., | 32 00 |
| **No. 4**—Height 37 in., Length 35 in., without Tuyere, Weight 207 Lbs. | 34 00 |
| **No. 4**—Height 37 in., Length 35 in., with Tuyere, Weight 225 Lbs. | 46 00 |

No. 2 Blower is designed for all ordinary Blacksmith purposes, producing a welding heat on 3 in. Iron in five minutes and on 4 in. Iron in ten minutes, heavier work can be done if desired.

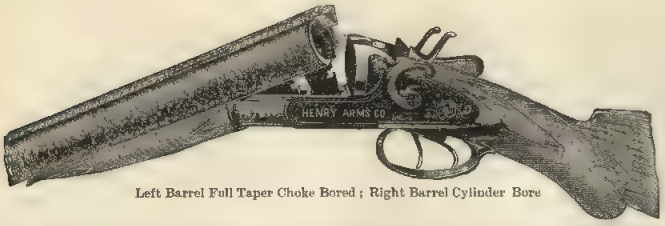
No. 4 is the largest Hand Blower made, and is especially designed for flange fires in boiler shops, and extra heavy work in shipsmiths' shops will do heavier work than any other Hand Blower made.





| | Each |
|---|---|
| **No. 01**—Height 45 in., without Tuyere, Weight 120 Lbs. | $23.00 |
| **No. 01** Height 45 in., with Tuyere, Weight 140 Lbs. | 25.00 |
| **No. 3** Height 47 in., without Tuyere, Weight 117 Lbs. | $23 00 |
| **No. 3**—Height 47 in., with Tuyere, Weight 135 Lbs. | 25 00 |

## PIEPER'S BREECH-LOADING GUNS.

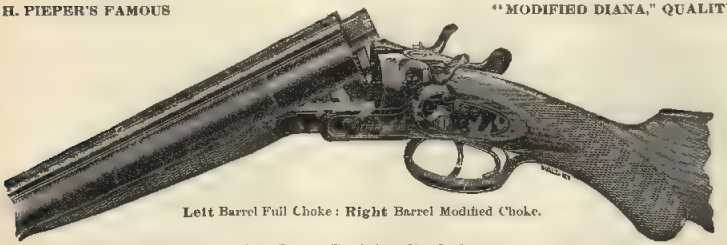



Left Barrel Full Taper Choke Bored ; Right Barrel Cylinder Bore

**No. 25.**

| | | Each |
|---|---|---|
| Top Snap, Genuine Two Blades Boston Damascus Barrels, Bar Action Rebounding Locks, Full Pistol Grip, Rubber Butt, Deely & Edge Fore-end, Double Bolt, Engraved Locks and Mountings, Matted Rib. | 12 gauge | 30.30 |
| | 16 " | 30.30 |

**H. PIEPER'S FAMOUS** **"MODIFIED DIANA," QUALITY.**



Left Barrel Full Choke : Right Barrel Modified Choke.

**No. 262**

| | | Each |
|---|---|---|
| Pieper's Patent Top Bolt, Compressed Steel Barrels, Bar Rebounding Locks, Extension Rib, Circular Hammers, Pistol Grip, Rubber Butt, Matted Rib, Deely & Edge Fore-end, Treble Bolts. | 12 gauge. | 32.00 |
| | 16 " | 32.00 |

**H. PIEPER'S FAMOUS** **"MODIFIED DIANA" QUALITY.**

Left Barrel Full Choke: Right Barrel Modified Choke.

**No. 26.**

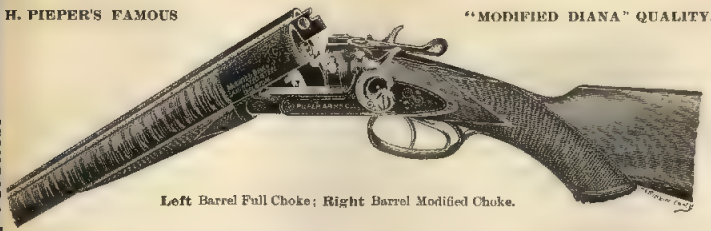
| | | Each |
|---|---|---|
| Pieper's Patent Top Bolts, **London Twist Barrels,** Bar Rebounding Locks, Extension Rib, Circular Hammers, Pistol Grip, Rubber Butt, Matted Rib, **Treble Bolt, Fine Quality.** | 10 gauge. | 37 00 |
| | 12 " | 35 60 |
| | 16 " | 35.60 |

**"ELLIOT'S" hand-forged Razors are the very best made.**

H. S. HOWLAND, SONS & CO., WHOLESALE HARDWARE, TORONTO.

# PIEPER'S BREECH-LOADING GUNS.

H. PIEPER'S FAMOUS "MODIFIED DIANA" QUALITY.



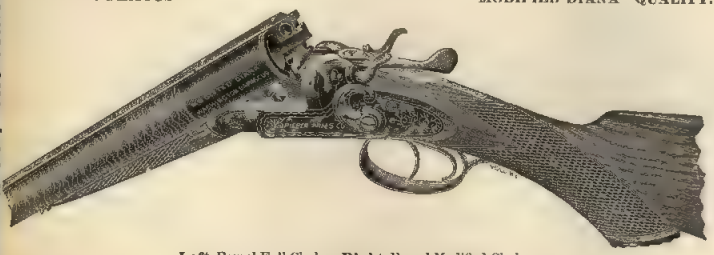
**Left** Barrel Full Choke; **Right** Barrel Modified Choke.

No. **264.**

Pieper's Patent Top Bolt, **London Twist Barrels,** Bar Rebounding Locks, Extension Rib, Purdy Fore-end, Nicely Engraved, Pistol Grip with Rubber Cap, Rubber Butt, **Quadruple Bolt.**

| | Each |
|---|---|
| 10 gauge | 41 60 |
| 12 " | 38.70 |

H. PIEPER'S FAMOUS "MODIFIED DIANA" QUALITY.



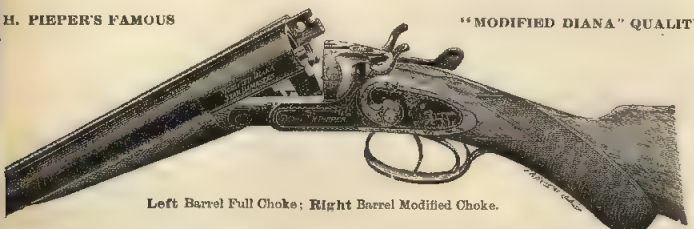
**Left** Barrel Full Choke; **Right** Barrel Modified Choke

No. **27.**

Pieper's Patent Top Bolt, **Stanley Damascus Barrels,** Bar Rebounding Locks, Extension Rib, Purdy Fore-end, Nicely Engraved, Pistol Grip with Rubber Cap, Rubber Butt, **Quadruple Bolt.**

| | Each |
|---|---|
| 10 gauge | 50.60 |
| 12 " | 46.00 |

H. PIEPER'S FAMOUS "MODIFIED DIANA" QUALITY.



**Left** Barrel Full Choke; **Right** Barrel Modified Choke.

No. **28.**

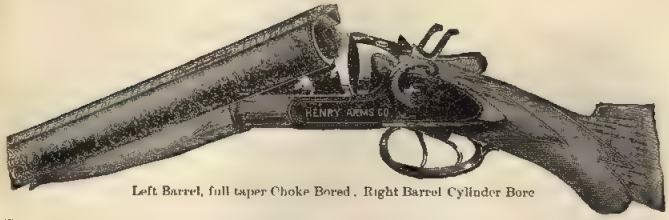
Pieper's Patent Top Bolt, Oxford Three Blades Damascus Barrels, Matted Breech, Scroll Fence, Bar Rebounding Locks, Finely Engraved, Purdy Fore-end, Extension Matted Rib, Circular Hammers, **Quadruple Bolt.**

| | Each |
|---|---|
| 12 gauge | 64.20 |

**"ELLIOT'S" hand-forged** Cheese Knives and Butter Spades are the very best made.

H. S. HOWLAND, SONS & CO., WHOLESALE SPORTING GOODS, TORONTO.

## PIEPER'S BREECH-LOADING GUNS.




Left Barrel, full taper Choke Bored. Right Barrel Cylinder Bore

Top snap, Imitation Oxford Damascus barrels, **bar action, rebounding locks,** pistol grip, rubber butt, patent fore-end, matted rib.

**No. 22.**

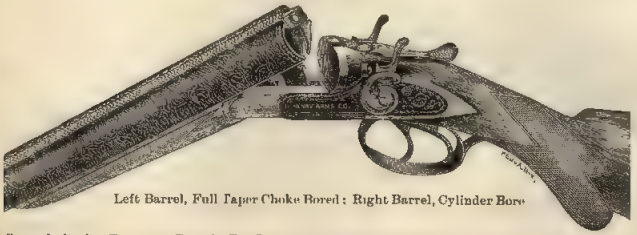
| | Each |
|---|---|
| 10 gauge | 21.50 |
| 12 " | 19.40 |
| 16 " | 19.40 |

Left Barrel, Full Taper Choke Bored; Right Barrel, Cylinder Bore.

Top Snap, Imitation Damascus Barrels, Bar Locks, Engraved, Pistol Grip with Rubber Cap, Matted Rib, Deely & Edge Fore-end.

**No. 23.**

| | Each. |
|---|---|
| 10 gauge | 24.70 |
| 12 " | 22.80 |



Left Barrel, Full Taper Choke Bored; Right Barrel, Cylinder Bore

Top Snap, Imitation Damascus Barrels, Bar Locks and **Cross Bolt,** Engraved, Pistol Grip with Rubber Cap, Matted Rib, Deely & Edge Fore-end.

**No. 24.**

| | Each. |
|---|---|
| 10 gauge | 27.40 |
| 12 " | 25.90 |
| 16 " | 25.60 |

**"ELLIOT'S" hand-forged Table Knives and Forks are the best.**

## PIEPER'S HAMMERLESS 1900 MODEL.

Compressed Steel Barrels, "Modified Diana" System, Double Bolt, Patent Fore-end.

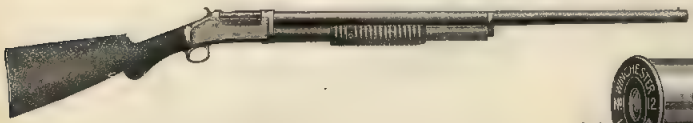
No. 29. Each
12 gauge..... 39.50

No. 30. Each
12 gauge.. ..... 46.90

No. 30, London Twist Barrels, "Modified Diana" System, Double Bolt, Patent Fore-end.
" 31, Washington Damascus Barrels, Engraved Locks and Mountings, Quadruple Bolt, Purdy Fore-end.

No. 31.
12 gauge. .. . . 69 20

## Winchester Repeating Shot Guns.



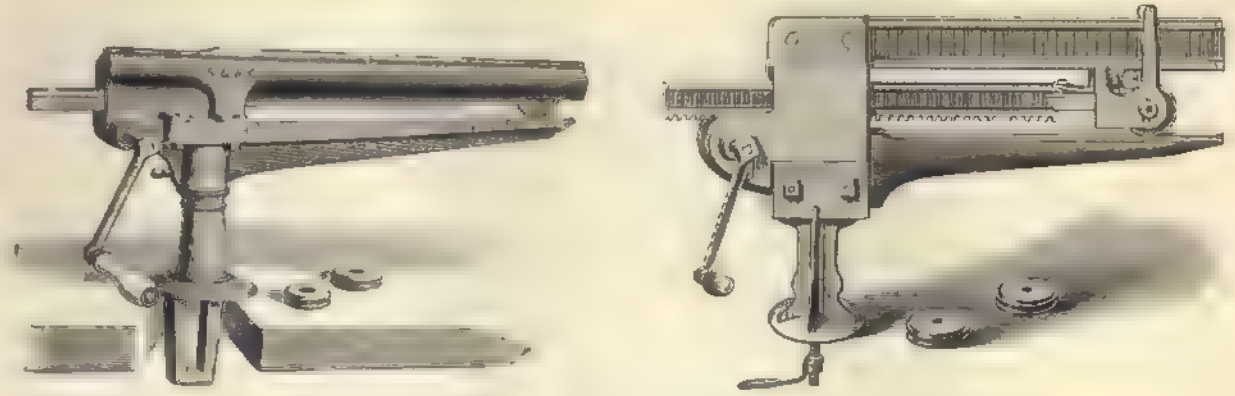
Model **1897**, 12 Calibre, 30 in. Rolled Steel Barrel, Weight 7½ lbs. . .

Each
15 00

**"ELLIOT'S"** hand-forged Butcher Knives are the very best made

H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

# Tinners' Tools and Machines.



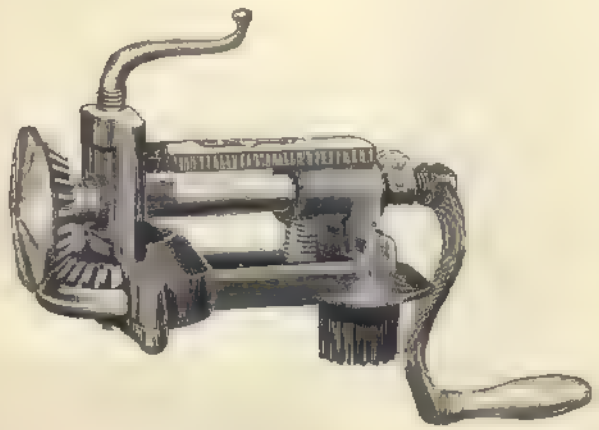
Stow's Encased Machines.

### Encased Grooving.

| | Each |
|---|---|
| No. 1—20 in. Encased Grooving Machines, with Rotary Stand, for Heavy Work, | $13 50 |
| No. 2—17 in. Encased Grooving Machines, with Rotary Stand, for Common Work, | 11.00 |
| Extra Stands, | .75 |
| Extra Rollers, (3 Rolls Constitute a Set), Grooves ⅛, $\frac{3}{16}$, $\frac{1}{4}$ in, | 75 |
| Extra Groover Ratchets, Brass Mounted, | 2 50 |
| Extra Groover Pinions, | 50 |

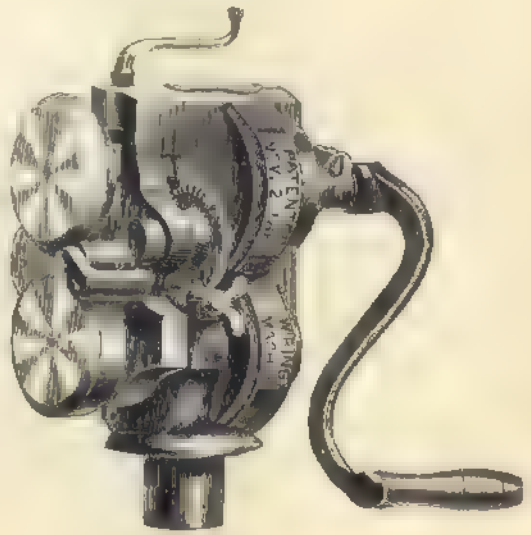
### Brass Mounted Grooving.

| | Each. |
|---|---|
| No. 01 20 in. Brass Mounted Grooving Machines, with Stand, for Heavy Work. | $13 50 |
| No. 02 –17 in. Brass Mounted Grooving Machines, with Stand, for Common Work, | 11 00 |
| Extra Stands, | 75 |
| Extra Rollers, (3 Rolls Constitute a Set), Grooves ⅛, $\frac{3}{16}$, $\frac{1}{4}$ in, | 75 |
| Extra Groover Ratchets, Brass Mounted, | 3.25 |



### Setting Down.

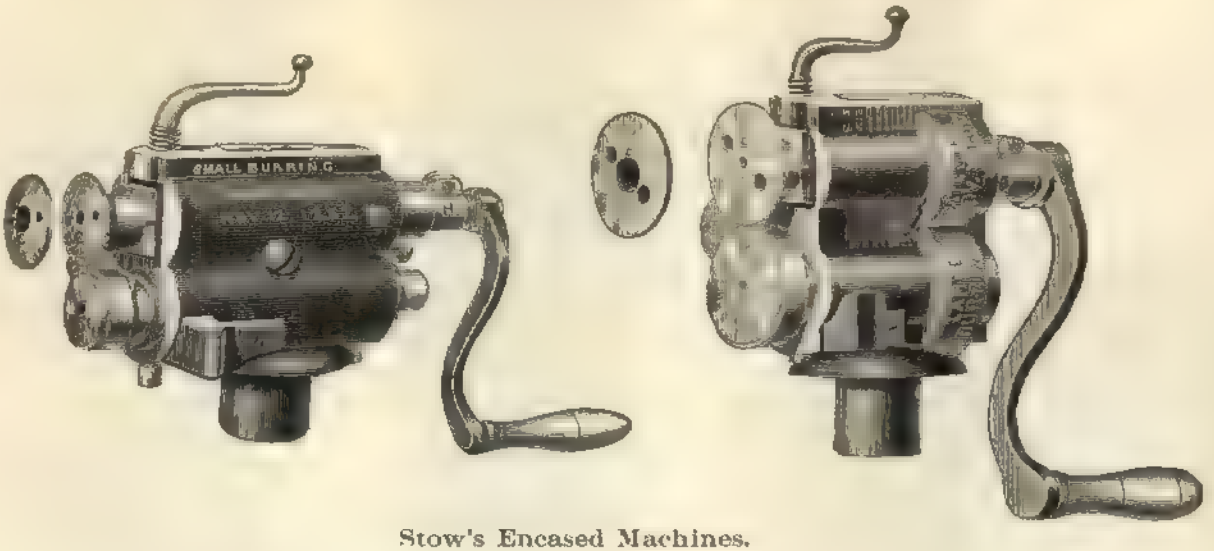
| | Each |
|---|---|
| Encased Setting Down Machines, with Standard, | $9 75 |
| Encased Setting Down Machines, without Standard, | 9 00 |
| Extra Upper or Lower Rolls, | 3 00 |
| Extra Lower Journal Plates, | .50 |



### Wiring.

| | Each. |
|---|---|
| Encased Wiring Machines, with Standard, | $14 00 |
| Encased Wiring Machines, without Standard, | 13 25 |
| Extra Upper or Lower Rolls, with Arbor, | 2.50 |

# Tinners' Tools and Machines.




Stow's Encased Machines.

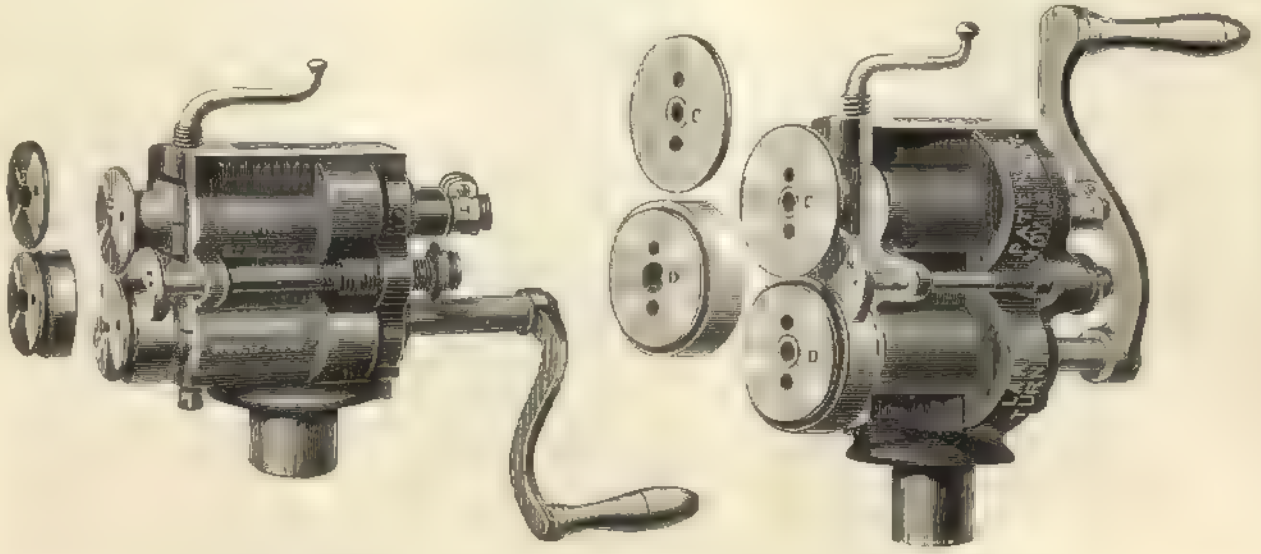
### Small Burring.

| | Each. |
|---|---|
| Small Encased Burring Machines, with Extra Upper Face, with Standard, | $10 00 |
| Small Encased Burring Machines, with Extra Upper Face, without Standard, | 9.25 |

### Large Burring.

| | Each |
|---|---|
| Large Encased Burring Machines, with Extra Upper Face, with Standard, | $10.50 |
| Large Encased Burring Machines, with Extra Upper Face, without Standard, | 9.75 |

| | Each. |
|---|---|
| Extra Upper Faces for Small and Large Encased Burring Machines, | $1 00 |
| Extra Lower Faces for Small and Large Encased Burring Machines, with Arbor, | 2.00 |




### Small Turning.

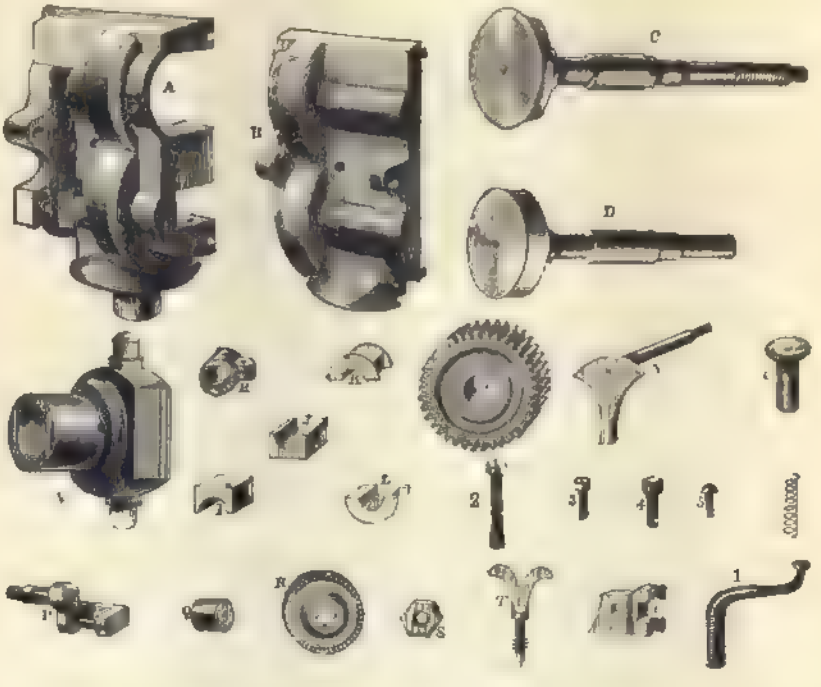
| | Each |
|---|---|
| Small Encased Turning Machines, with Extra Upper and Lower Face, with Standard, | $11 25 |
| Small Encased Turning Machines, with Extra Upper and Lower Face, without Standard, | 10.50 |

### Large Turning.

| | Each. |
|---|---|
| Large Encased Turning Machines, with Extra Upper and Lower Face, with Standard, | $11.50 |
| Large Encased Turning Machines, with Extra Upper and Lower Face, without Standard, | 10.75 |

| | Each |
|---|---|
| Extra Faces for Small and Large Encased Turning Machines, | $1 00 |

# Tinners' Tools and Machines.




## Interchangeable Parts Belonging to Stow's Encased Wiring Machines.

| | Each |
|---|---|
| A—Frame | $2 50 |
| B—Cap, | 1 50 |
| C—Upper Roller, | 2 50 |
| D—Lower Roller, | 2 50 |
| H—Clasp Nut, | .60 |
| V—Rocking Box, | 1 50 |

## Journal Boxes.

| | Each |
|---|---|
| I —Front Upper Box, for Upper Roller, | $0.25 |
| J —Front Lower Box, for Upper Roller, | 25 |
| K —Front and Back Top Boxes, for Lower Roller, | .25 |
| L —Front and Back Lower Boxes, for Lower Roller, | 25 |
| M —Gear, | 60 |
| N —Sliding Gauge, | 1 25 |
| O —Sliding Gauge Nut, | 75 |
| P —Forming Gauge, for Wiring Machine, | 75 |
| Q —Forming Gauge Roller, for Wiring Machine | 25 |
| R —Forming Gauge Worm Gear, for Wiring Machine, | 1 00 |
| S Forming Gauge Nut, for Wiring Machine, | 25 |
| T Worm Gear Screw, | 75 |
| U —Worm Gear Screw Holder, | 25 |

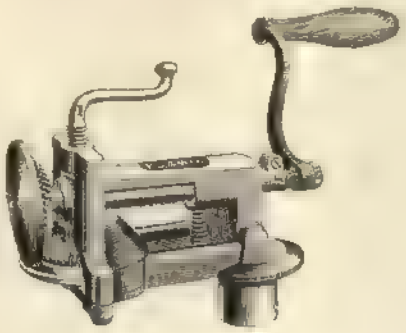
## Screws.

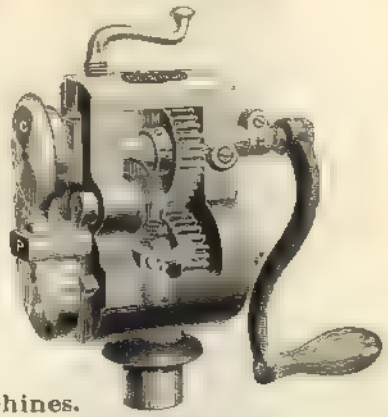
| | Each. |
|---|---|
| No. 1—Crank Screw, | $0 40 |
| No. 2—Cap Screw, | .15 |
| No. 3—Lower Box Screw, | .25 |
| No. 4—Worm Gear Screw Holder Bolt, | .15 |
| No. 5—Clasp Nut Screw, | .15 |
| Spring, | .10 |

The corresponding parts of other Machines in the set bear the same letters or figures as far down as the letter O, also Rocking Box V. Those bearing the letters P to U inclusive are found only in the Wiring Machine.

The above prices apply to parts of all Encased Machines.

# Tinners' Tools and Machines.





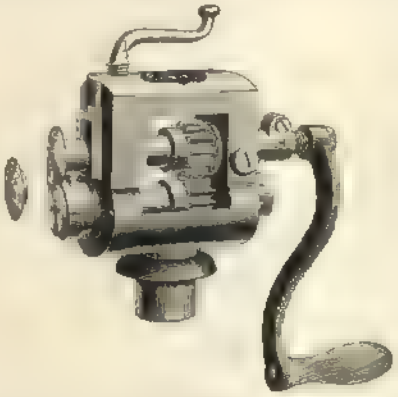
## Stow's Columbian Machines.

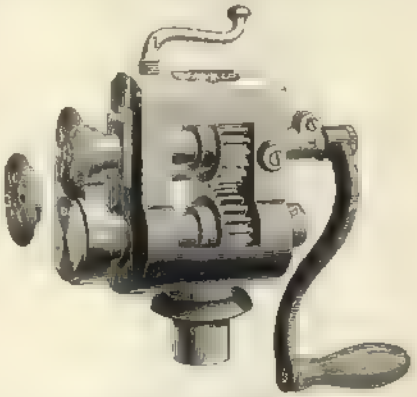
### Setting Down.

| | Each. |
|---|---|
| Columbian Setting Down Machines, with Standard, | $9.75 |
| Columbian Setting Down Machines, without Standard, | 9.00 |
| Extra Upper or Lower Rolls, | 3.00 |

### Wiring.

| | Each. |
|---|---|
| Columbian Wiring Machines, with Standard, | $12.00 |
| Columbian Wiring Machines, without Standard. | 11.25 |
| Extra Upper or Lower Rolls, with Arbor. | 2.50 |



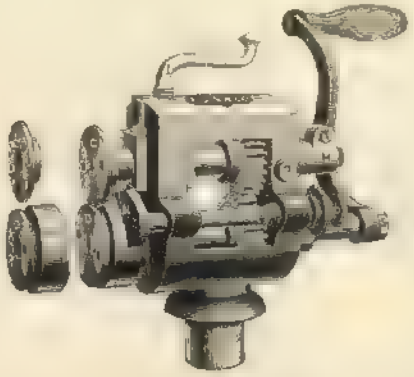


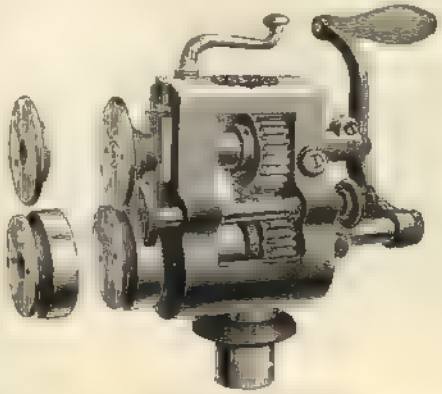
### Small Burring.

| | Each |
|---|---|
| Columbian Small Burring Machines, with Extra Upper Face, with Standard, | $9.50 |
| Columbian Small Burring Machines, with Extra Upper Face, without Standard, | 8 75 |
| Extra Upper Faces, | 1.00 |
| Extra Lower Faces, with Arbor, | 2.00 |

### Large Burring.

| | Each. |
|---|---|
| Columbian Large Burring Machines, with Extra Upper Face, with Standard, | $10.00 |
| Columbian Large Burring Machines, with Extra Upper Face, without Standard, | 9.25 |
| Extra Upper Faces, | 1 00 |
| Extra Lower Faces, with Arbor, | 2 00 |





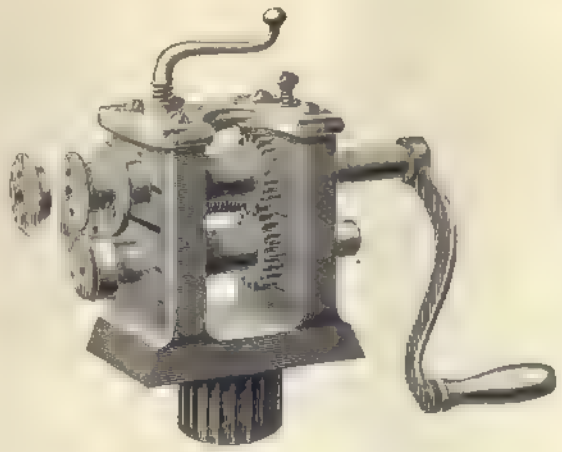
### Small Turning.

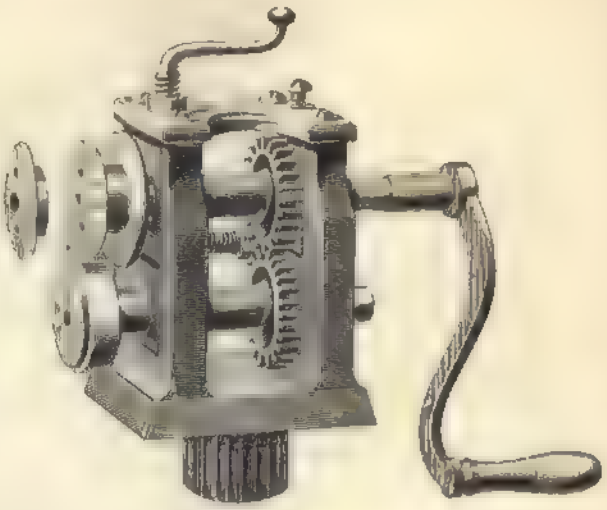
| | Each |
|---|---|
| Columbian Small Turning Machines, with Extra Upper and Lower Face, with Standard, | $10.50 |
| Columbian Small Turning Machines, with Extra Upper, and Lower Face, without Standard, | 9.75 |
| Extra Upper or Lower Faces, | 1.00 |

### Large Turning.

| | |
|---|---|
| Columbian Large Turning Machines, with Extra Upper and Lower Face, with Standard, | $10.75 |
| Columbian Large Turning Machines, with Extra Upper and Lower Face, without Standard. | 10.00 |
| Extra Upper or Lower Faces, | 1 00 |

# Tinners' Tools and Machines.





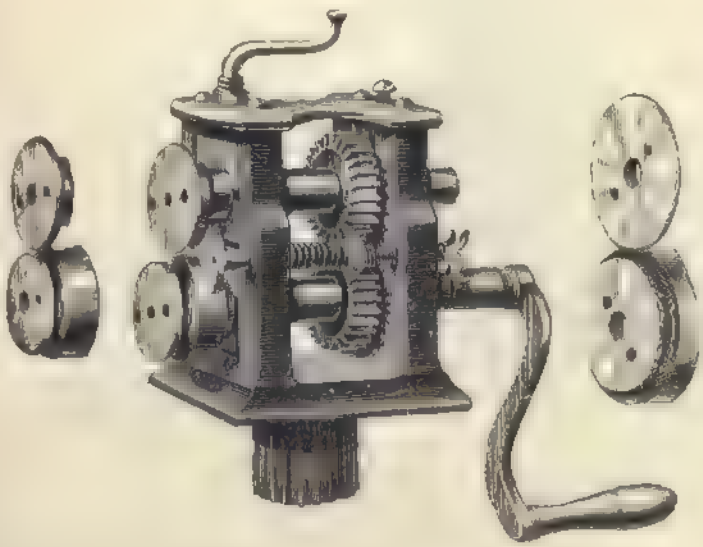
## No. 1—Machines.

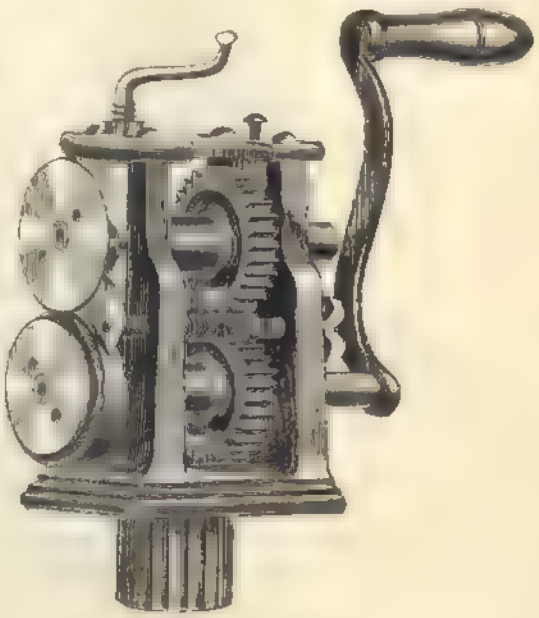
### Small Burring.

| | | Each |
|---|---|---|
| No. 1 | Small Burring Machines, with Extra Upper Face, with Standard, | $8.50 |
| No. 1 | —Small Burring Machines, with Extra Upper Face, without Standard, | 7 75 |
| Extra Upper Faces, | | 1.00 |
| Extra Lower Faces, with Arbor, | | 2.00 |

### Large Burring.

| | | Each. |
|---|---|---|
| No. 1 | Large Burring Machines, with Extra Upper Face, with Standard, | $9 00 |
| No. 1 | Large Burring Machines, with Extra Upper Face, without Standard, | 8.25 |
| Extra Upper Faces, | | 1.00 |
| Extra Lower Faces, with Arbor, | | 2.00 |





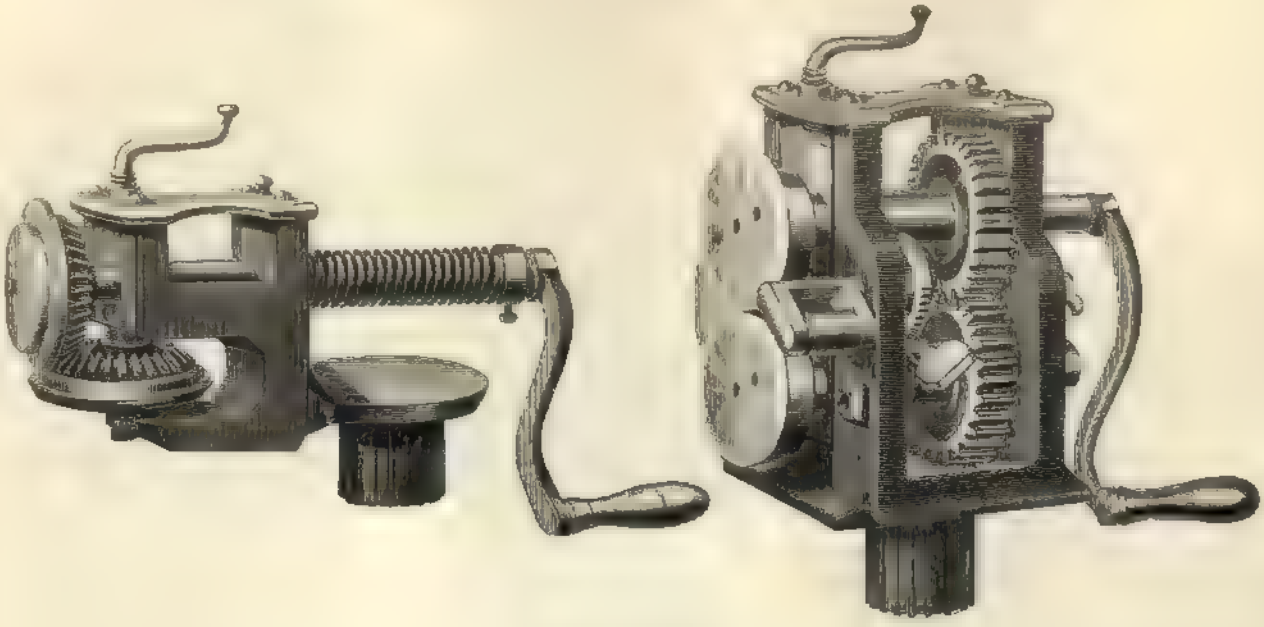
### Small Turning.

| | | Each. |
|---|---|---|
| No. 1 | Small Turning Machines, with Extra Upper and Lower Face, with Standard, | $10.00 |
| No. 1 | —Small Turning Machines, with Extra Upper and Lower Face, without Standard, | 9.25 |
| Extra Faces. | | 1.00 |

### Large Turning.

| | | Each |
|---|---|---|
| No. 1 | Large Turning Machines, with Extra Upper and Lower Face, with Standard, | $10.25 |
| No. 1 | Large Turning Machines, with Extra Upper and Lower Face, without Standard, | 9.50 |
| Extra Faces. | | 1.00 |

# Tinners' Tools and Machines.



No. 1 Machines.

**Setting Down.**

| | Each |
|---|---|
| **No. 1** Setting Down Machines with Standard, | $9 75 |
| **No. 1**—Setting Down Machines, without Standard, | 9 00 |
| Extra Upper Rolls, with Arbor, | 3.00 |
| Extra Lower Rolls, with Arbor, | 3.00 |

**Wiring.**

| | Each |
|---|---|
| **No. 1**—Wiring Machines, with Standard, | $12 00 |
| **No. 1** Wiring Machines, without Standard, | 11 25 |
| Extra Faces, | 1 25 |

## Machine Standards.

Wiring Machine Standard.

Small Machine Standard.

Wiring Machine Standard.

Small Machine Standard.

| | Each. |
|---|---|
| Stow's Improved Machine Standards, for Encased, Columbian and No. 1 Machines, | $1.00 |

| | Each. |
|---|---|
| **No. 1**—Machine Standards for No. 1 Machines, | $0 75 |

# Pocket Knives.

## George Wostenholm's IXL.

Full Size Cuts.

| | Per Dozen |
|---|---|
| **No. 2001**—Two Blades, Ebony Handle, Steel Lined, Polished Steel Bolster. | $10.00 |

| | Per Dozen |
|---|---|
| **No. 2007**—Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolster. | $14 50 |

| | Per Dozen |
|---|---|
| **No. 2013**—Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters, | $15 50 |
| **No. 2014**—Two Blades, White Bone Handle, Brass Lined, Nickel Silver Bolsters, | 15 50 |
| **No. 2041**—Two Blades, Stag Handle, Steel Lined, Polished Steel Bolsters, | 16.00 |

| | Per Dozen |
|---|---|
| **No. 2105**—Two Blades, Ivory Handle, Brass Lined, Nickel Silver Bolsters, | $14 50 |

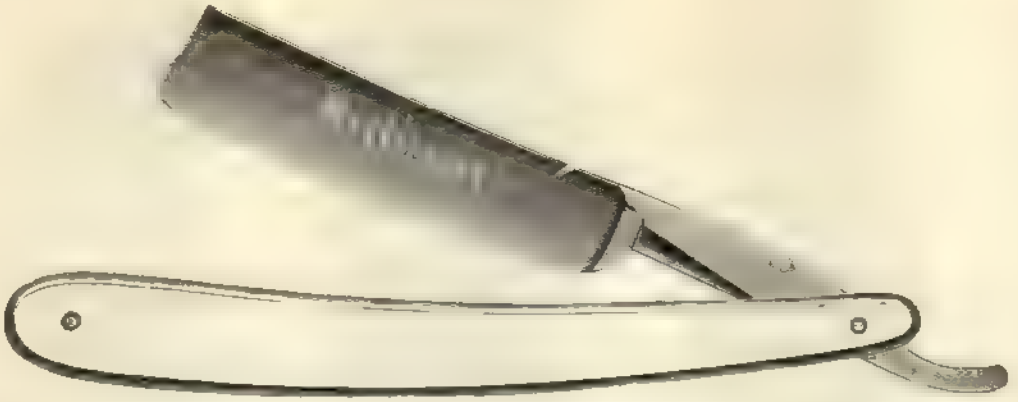
| | Per Dozen |
|---|---|
| **No. 2118**—Two Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, | $24 00 |
| **No. 2126**—Four Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, | 30.00 |

| | Per Dozen |
|---|---|
| **No. 2071**—Three Blades, Stag Handle, Brass Lined, Nickel Silver Bolsters, | $22 00 |
| **No. 2073**—Three Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, | 30 00 |

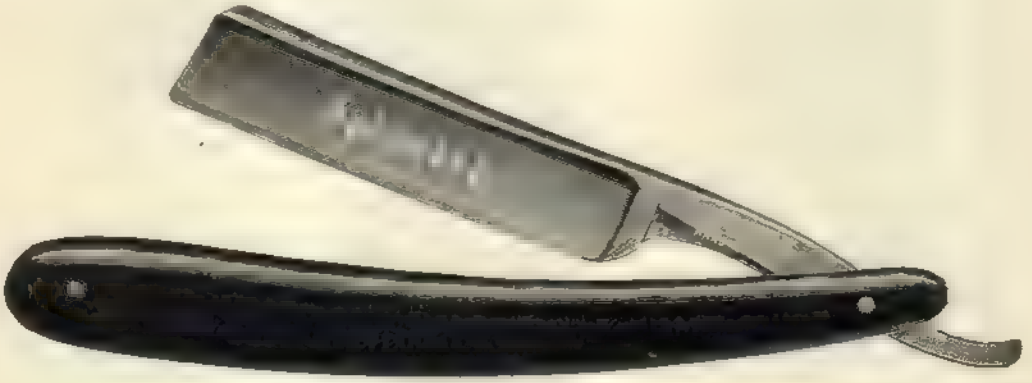
Half Dozen in a Box

# Razors.

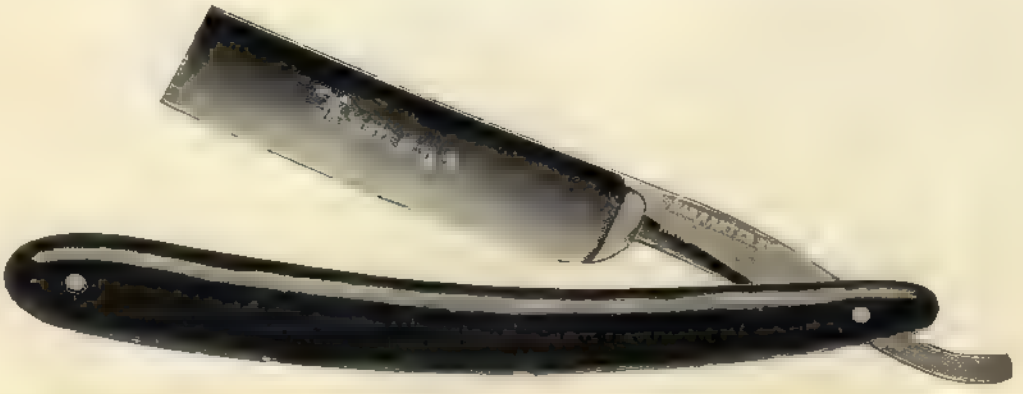
Full Size Cuts



| | Per Dozen. |
|---|---|
| No. 850—⅞ in., Brilliant, Extra Hollow Ground, Extra Fine Finish, Celluloid Handle, | $22 50 |
| No. 825—¼ in., Beauty, Extra Hollow Ground, Extra Fine Finish, Celluloid Handle, | 22 00 |



No. 900—⅞ in., Splendid, Extra Hollow Ground, Extra Fine Finish, Black Rubber Handle. . . . $24.00

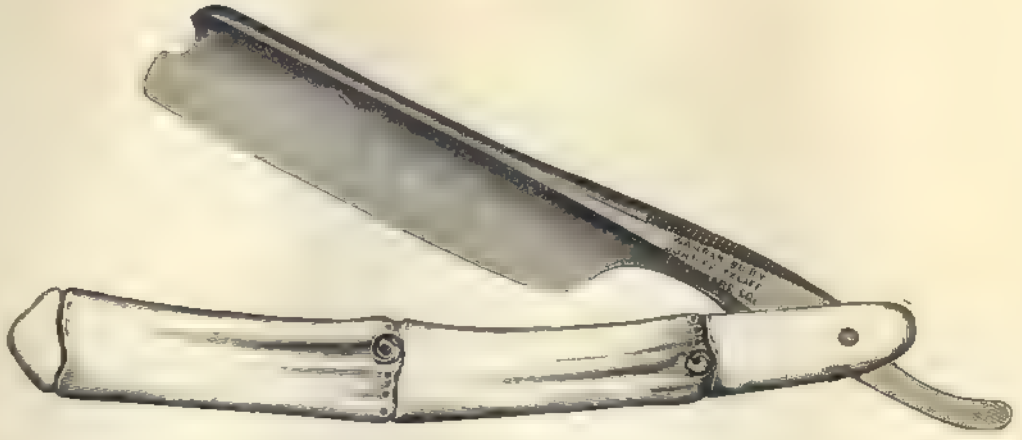


No. 800—⅞ in., Famous, Extra Hollow Ground, Fine Finish, Black Rubber Handle. . . . . $20.00

Half Dozen in a Box

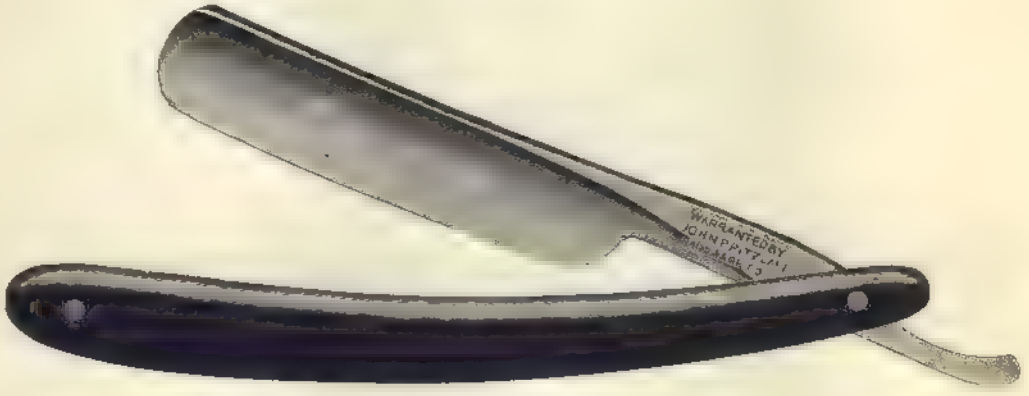
# Razors.

Full Size Cuts



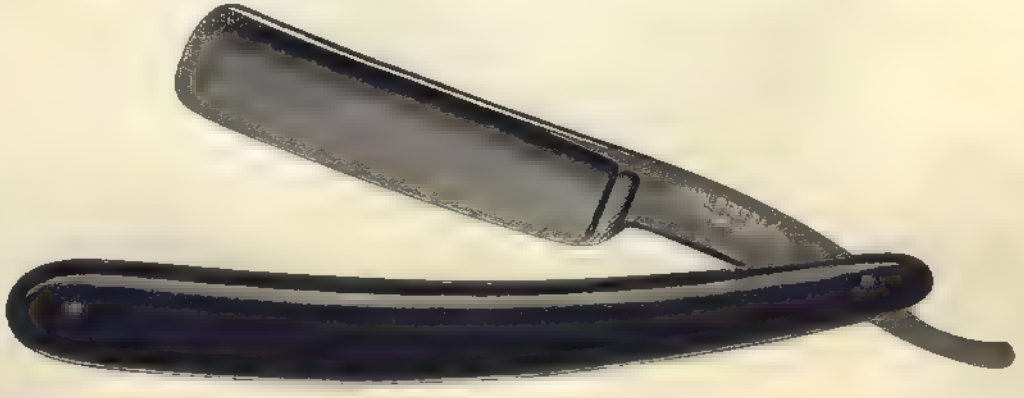
Per Dozen.

**No. 930**—⅞ in., Victor, Extra Full Hollow Ground, Hollow Point, Beveled Back, Crocus Polish, Bamboo Pattern Celluloid Handle. . . . . **$26.00**



Per Dozen

**No. 920**—⅞ in., Prince, Extra Full Hollow Ground, Round Point, Crocus Polish, Black Rubber Handle, . **$24.00**



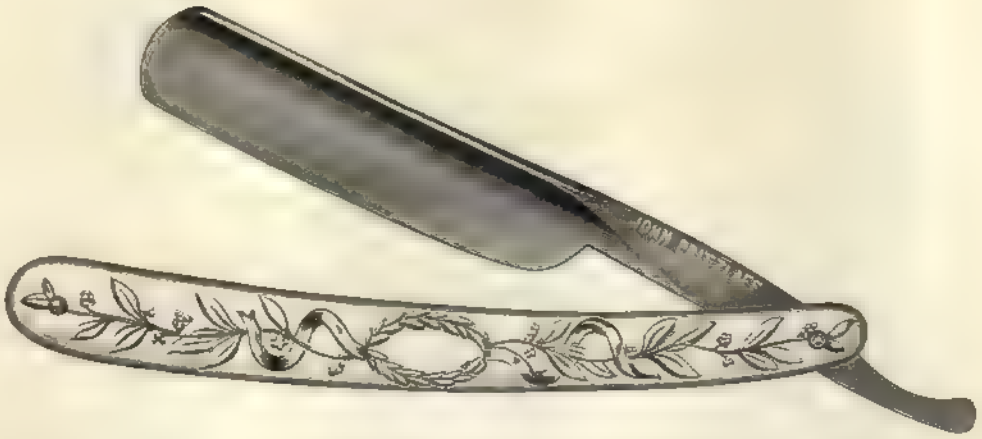
Per Dozen

**No. 372**—⅞ in., Extra Full Hollow Ground, Round Point, Crocus Polish, Black Rubber Handle, . **$15.00**

Half Dozen In a Box.

# Razors.

Full Size Cuts



**No. 965**—⅞ in., Extra Full Hollow Ground, Round Point, Crocus Polish, Fancy Celluloid Ivory Handle, . Per Dozen $28 00

**No. 960**—⅞ in., Extra Full Hollow Ground, Hollow Point, Fancy Back, Crocus Polish, Fancy Black Rubber Handle, Per Dozen $26.00

**No. 975**—⅞ in., Extra Full Hollow Ground, Square Point, Crocus Polish, Black Rubber Tang, Fancy Black Rubber Handle, Per Dozen $32.00

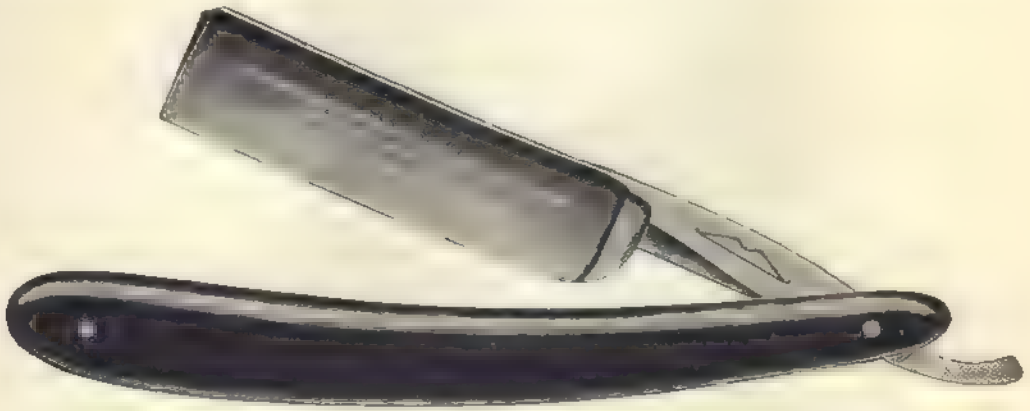
**No. 980**—⅞ in., Extra Full Hollow Ground, Square Point, Crocus Polish, Pearl Tang, Black Rubber Handle, . 36.00

Quarter Dozen in a Box

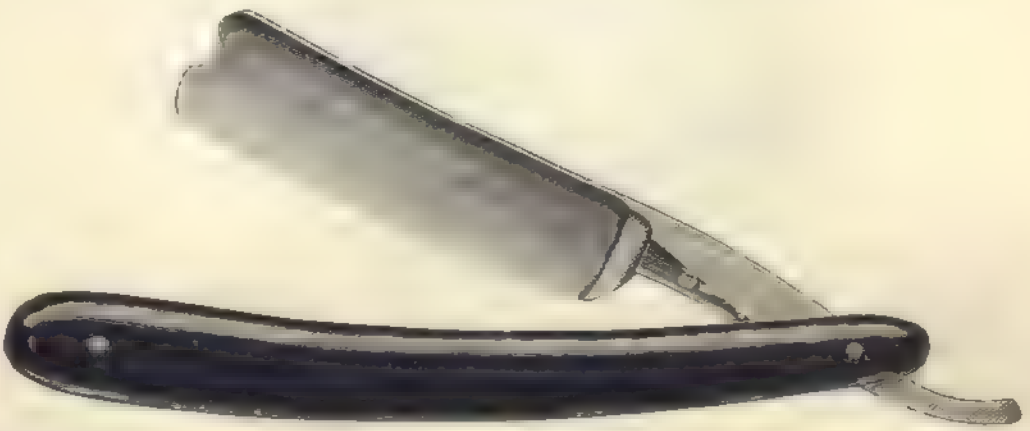
# Razors.

Full Size Cuts.

| | Per Dozen |
|---|---|
| **No. 1094**—⅞ in. Extra Full Hollow Ground, Square Point, Crocus Polish, Fancy Black Rubber Handle, . | $18 00 |



| | Per Dozen. |
|---|---|
| **No. 101** ⅞ in., Wade & Butcher's Bow, Hollow Ground, Square Point, Black Rubber Handle, | $14.50 |

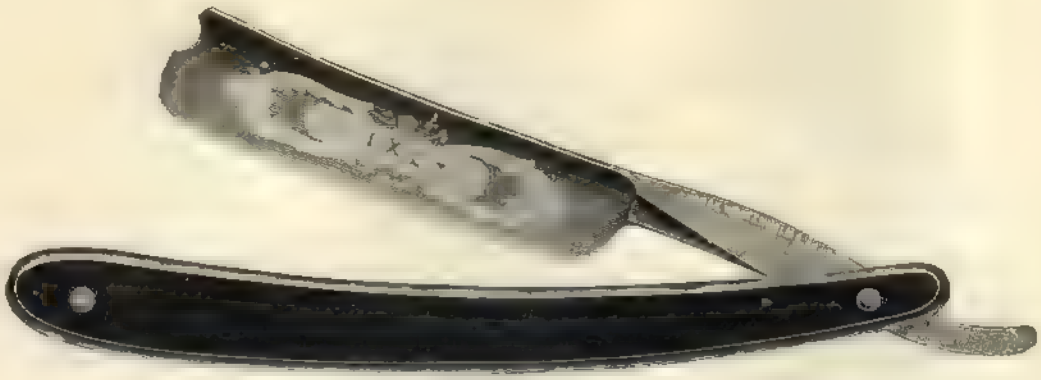


| | Per Dozen. |
|---|---|
| **No. 751** ⅞ in., Wade & Butcher's, Medium Hollow Ground, Hollow Point, Black Rubber Handle, . . | $13 50 |
| **No. 1372** ⅞ in., Wade & Butcher's, Medium Hollow Ground, Hollow Point, Black Rubber Handle, . . | 11 00 |

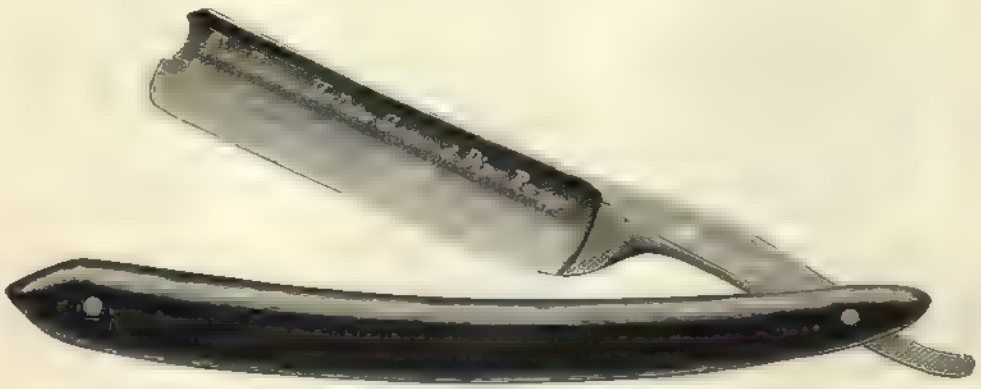
Half Dozen in a Box.

# Razors.

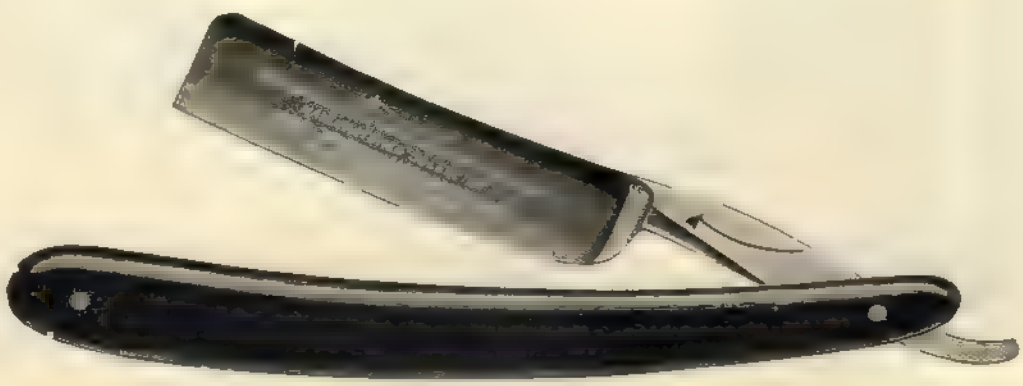
All Size Cuts



**No. 02784**—⅞ in., Wostenholm's, Half Hollow Ground, Hollow Point, Black Rubber Handle, — Per Dozen $13.00



**No. 03316**—⅞ in., Wostenholm's Genuine Pipe, Extra Hollow Ground, Hollow Point, Black Rubber Handle, — Per Dozen $18 00

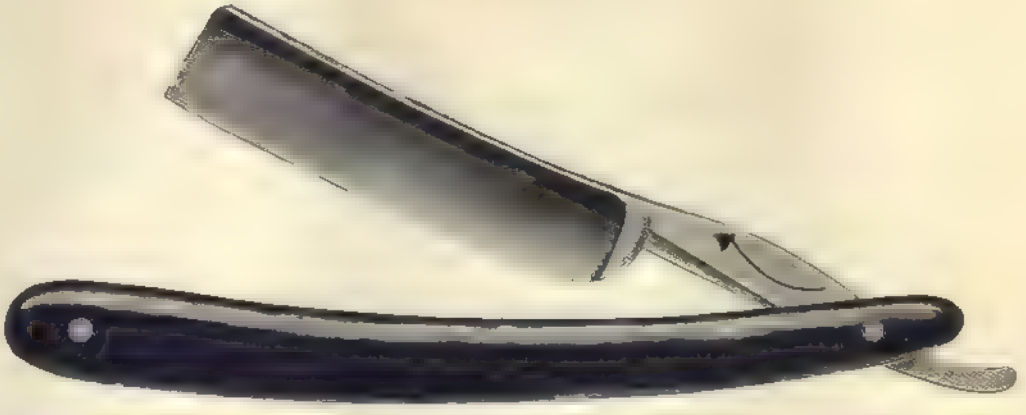


**No. 02363** ⅞ in., Wostenholm's Genuine Pipe, Hollow Ground, Square Point, Black Rubber Handle, — Per Dozen $13 00

Half Dozen in a Box.

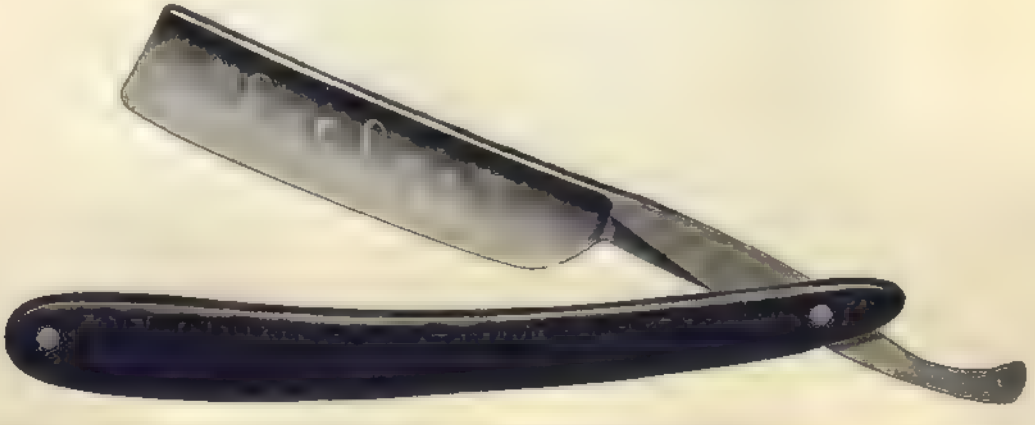
# Razors.

Full Size Cuts



No. 01461 § in., Wostenholm's, Extra Hollow Ground, Square Point, Black Rubber Handle. . . Per Dozen $20.00

No. 01163—§ in., Wostenholm's, Extra Hollow Ground, Square Point Black Rubber Handle. Per Dozen $14 00



No. 226—§ in., Our Own, Extra Hollow Ground, Square Point, Black Rubber Handle. . . Per Dozen $16 00

Half Dozen in a Box.

# Razors.

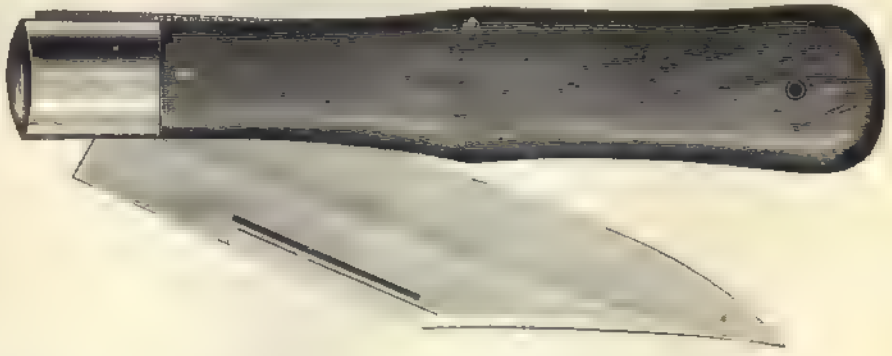
**No. 125**—Corn Razors, Best Quality Tempered Steel Blade, Celluloid Ivory Handle. Per Dozen $8 00

**No. 521**—Razor Assortment Contains Six ⅞ in., Extra Hollow Ground Etched Blades, Assorted Points, Fancy Backs, Fancy Celluloid Ivory and Black Rubber Handles, in Silk Lined Imitation Alligator or Seal Display Case, . . . . . Per Case, $15.00

# Pocket Knives.

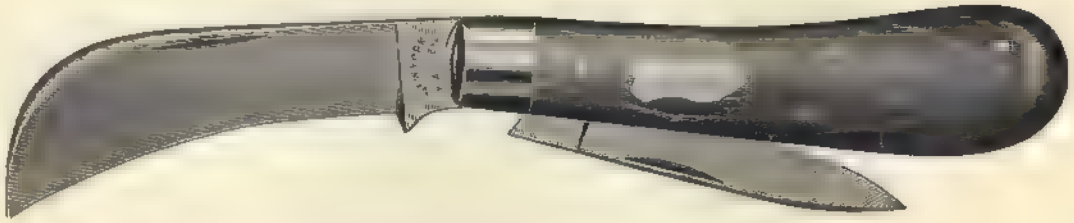
## New York Knife Co.'s, Warranted.

Full Size Cuts



**No. 188**—One Blade, Cocobolo Handle Steel Lined, Polished Steel Bolster. Per Dozen $11.50

**No. 142** One Blade Pruning, Cocobolo Handle, Steel Lined, Polished Steel Bolster. Per Dozen $8 00



**No. 2363** Two Blade Pruning, Cocobolo Handle, Steel Lined, Polished Steel Bolster. Per Dozen $9.00

**No. 1073**—One Blade Pruning, Cocobolo Handle, Steel Lined, Polished Steel Bolster and Cap. Per Dozen $12 00

Half Dozen in a Box.

# Pocket Knives.

## New York Knife Co.'s, Warranted.

Full Size Cuts.

| | Per Dozen |
|---|---|
| No. 195—One Blade, Pearl Handle, Brass Lined, Nickel Silver Bolster, | $7.00 |
| No. 193—One Blade, Ivory Handle, Brass Lined, Nickel Silver Bolster, | 5.00 |

| | Per Dozen |
|---|---|
| No. 295—Two Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, | $10.00 |
| No. 293—Two Blades, Ivory Handle, Brass Lined, Nickel Silver Bolsters, | 8.50 |
| No. 2995—Two Blades, Pearl Handle, Nickel Silver Lined, Nickel Silver Bolsters, | 10 00 |

| | Per Dozen |
|---|---|
| No. 2130—Two Blades, Shell Handle, Brass Lined, Nickel Silver Bolsters, | $10.00 |
| No. 2131—Two Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, | 11.50 |
| No. 2129—Two Blades, Ivory Handle, Brass Lined, Nickel Silver Bolsters, | 8 50 |

| | Per Dozen |
|---|---|
| No. 2265—Two Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters | $13.50 |

| | Per Dozen. |
|---|---|
| No. 2273—One Blade, Special Manicure File, Full Pearl Handle, Nickel Silver Lined, | $24 00 |
| No. 2271—One Blade, Special Manicure File, Stag Handle, Nickel Silver Lined, Nickel Silver Tips, | 14 00 |

| | Per Dozen. |
|---|---|
| No. 2275—One Blade, Special Manicure File, Ivory Antique Handle, Nickel Silver Lined, | $14 00 |
| No. 2279—One Blade, Special Manicure File, Pearl Handle, Nickel Silver Lined | 25 00 |

Half Dozen in a Box.

# Pocket Knives.

## New York Knife Co.'s, Warranted.

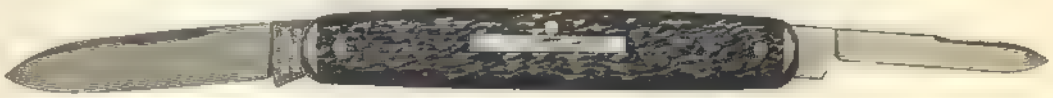
Full Size Cuts

Per Dozen.

No. 218—Two Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, . . . $13.30

Per Dozen.

No. 2846—Two Blades, Stag Handle, Steel Lined, Hollow Steel Bolsters, . . . $8.00



Per Dozen.

No. 2004—Two Blades, Stag Handle, Brass Lined, Nickel Silver Bolsters, . . . . $10.00

Per Dozen.

No. 2105—Two Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, . . . $15 50
No. 2104—Two Blades, Shell Handle, Brass Lined, Nickel Silver Bolsters, . . . . 15.50

Per Dozen

No. 2329—Two Blades, White Bone Handle, Brass Lined, Nickel Silver Bolsters, $10.00
No. 2328—Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters, . . . . 8.50

Per Dozen

No. 219—Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, . . . $1 00

Per Dozen

No. 223—Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters, . . . . $10 00

Half Dozen in a Box.

# Pocket Knives.

New York Knife Co.'s, Warranted.

Full Size Cuts

Per Dozen.

**No. 2771**—Two Blades, Pearl Handle, Aluminum Lined, Engraved Aluminum Bolsters. . . . $13.00

Per Dozen.

**No. 2063** Two Blades, Pearl Handle, Nickel Silver Lined, Nickel Silver Bolsters. . . . $16.00

Per Dozen.

**No. 3053** Three Blades, Full Pearl Handle, Nickel Silver Lined, . $24.00

Per Dozen.

**No. 3037**—Three Blades, Full Pearl Handle, Nickel Silver Lined, . $31 00
**No. 3034**—Three Blades, Stag Handle, Brass Lined, Nickel Silver Tips, . . 20 00

Per Dozen.

**No. 3118**—Three Blades, Ivory Handle, Brass Lined, Nickel Silver Bolsters, $13 50
**No. 351**—Three Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters. . . 24.00

Half Dozen in a Box.

# Pocket Knives.

## New York Knife Co.'s, Warranted.

Full Size Cuts.

Per Dozen.

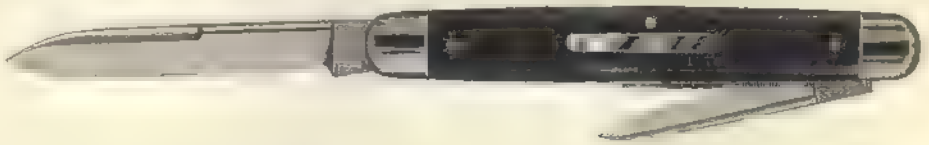
No. 3022—Three Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, . . . . . $16 00
No. 3021—Three Blades, Shell Handle, Brass Lined, Nickel Silver Bolsters, . . . . . 14.00
No. 3020—Three Blades, Ivory Handle, Brass Lined, Nickel Silver Bolsters, . . . . . 13.00

Per Dozen.

No. 391 Three Blades, Shell Handle, Brass Lined, Nickel Silver Bolsters, . . . . . $18 00

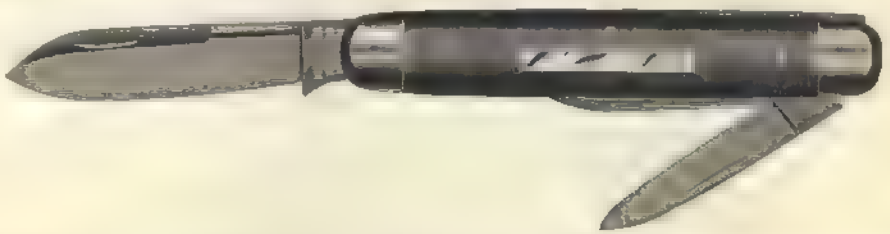
Per Dozen

No. 3092—Three Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, . . . . $20 00
No. 3090—Three Blades, Ivory Handle, Brass Lined, Nickel Silver Bolsters, . . . . 15 00



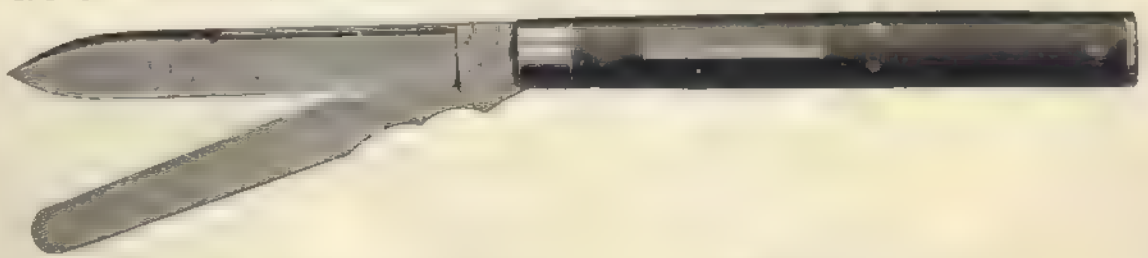
Per Dozen.

No. 3061—Three Blades, Horn Handle, Brass Lined, Nickel Silver Bolsters, $14 50



Per Dozen.

No. 3144—Three Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, . . $12 00



Per Dozen

No. 2841—One Blade and Spatula, Ebony Handle, Brass Lined Nickel Silver Bolster and Cap, . . $14 50
No. 2843 One Blade and Spatula, Pearl Handle, Brass Lined, Nickel Silver Bolster and Cap, . . 28.00

Half Dozen in a Box

# Pocket Knives.

## New York Knife Co.'s, Warranted.

Full Size Cuts.

No. 3771—Three Blades, Pearl Handle, Aluminum Lined, Engraved Aluminum Bolsters. — Per Dozen. $16 50

No. 3772—Three Blades, Pearl Handle, Aluminum Lined, Engraved Aluminum Bolsters. — Per Dozen $20.00

No. 3081 Three Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters. — Per Dozen $23.00

No. 317—Three Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters. — Per Dozen $24.00

No. 397—Three Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, $20.00
No. 398—Three Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters, 14.00
No. 3143—Three Blades, Shell Handle, Brass Lined, Nickel Silver Bolsters, 20.00

No. 3071—Three Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, $26 00
No. 3069—Three Blades, Ivory Handle, Brass Lined, Nickel Silver Bolsters, 17 00
No. 3068—Three Blades, Horn Handle, Brass Lined, Nickel Silver Bolsters, 16 00

Per Dozen

Half Dozen in a Box.

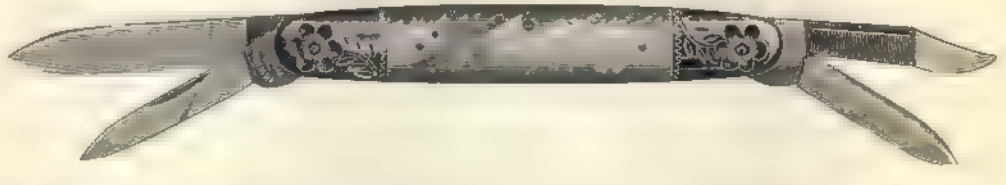
# Pocket Knives.

## New York Knife Co.'s, Warranted.

Full Size Cuts.

| | Per Dozen. |
|---|---|
| **No. 3104**—Three Blades, Pearl Handle, Brass Lined, Nickel Silver Bolster, | $24 00 |
| **No. 372**—Three Blades, Stag Handle, Brass Lined, Nickel Silver Bolster, | 13.50 |

| | Per Dozen |
|---|---|
| **No. 420**—Four Blades, Pearl Handle, Brass Lined Nickel Silver Bolsters, | $23.00 |



| | Per Dozen. |
|---|---|
| **No. 4772**—Four Blades, Pearl Handle, Aluminum Lined, Engraved Aluminum Bolsters, 3½ in | $20.00 |
| **No. 4773**—Four Blades, Pearl Handle, Aluminum Lined, Engraved Aluminum Bolsters, 3⅝ in | 23 00 |

| | Per Dozen |
|---|---|
| **No. 4117**—Four Blades, Full Pearl Handle, Nickel Silver Lined, Fancy Milled, 3 in., | $26.00 |
| **No. 456**—Four Blades, Full Pearl Handle, Nickel Silver Lined, Fancy Milled, 3½ in., | 30.00 |

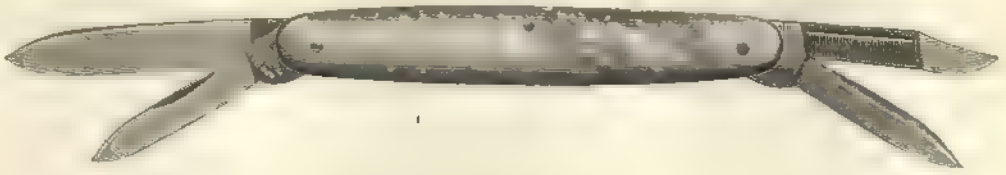
| | Per Dozen |
|---|---|
| **No. 476**—Four Blades, Full Pearl Handle, Brass Lined, | $26 00 |

Half Dozen in a Box.

# Pocket Knives.

## New York Knife Co.'s, Warranted.

Full Size Cuts



**No. 4057** -Four Blades, Full Pearl Handle, Brass Lined, Fancy Milled, — Per Dozen. $25 00

**No. 485**—Four Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, — Per Dozen $28 00

**No. 405**—Four Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, — Per Dozen $22 00

**No. 433**—Four Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, — Per Dozen. $26.00

**No. 4870**—Four Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters, . . . . — Per Dozen. $23 00

Half Dozen in a Box.

# Pocket Knives.

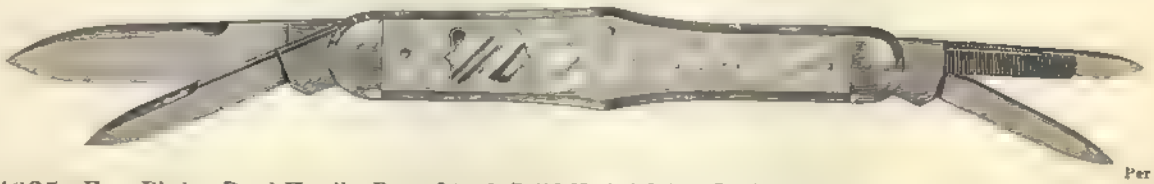
New York Knife Co.'s, Warranted.

Full Size Cuts

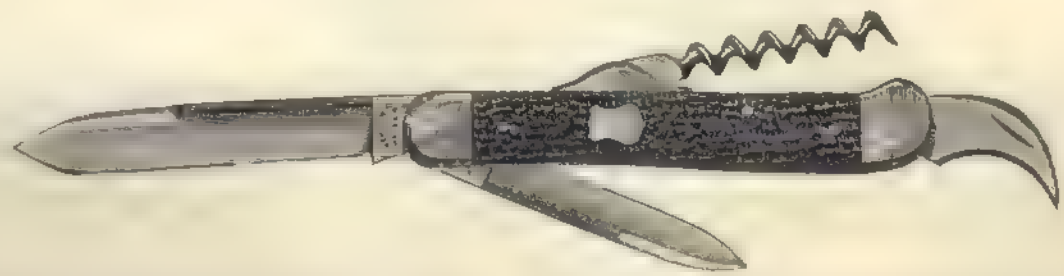
**No. 475** Four Blades, Pearl Handle, Nickel Silver Lined, Nickel Silver Bolsters, — Per Dozen $24 00

**No. 483** Four Blades, Stag Handle, Brass Lined, Nickel Silver Bolsters. . — Per Dozen $15.00

**No. 4868** Four Blades, Stag Handle, Brass Lined, Nickel Silver Bolsters. . . . — Per Dozen. $14.75



**No. 4025** Four Blades, Pearl Handle, Brass Lined, Solid Nickel Silver Back and Bolsters, . . . — Per Dozen $46 00



**No. 4013** Two Blades, Champagne Opener and Corkscrew, Stag Handle, Brass Lined, Nickel Silver Bolsters, — Per Dozen. $30 00
**No. 4016** Two Blades, Champagne Opener and Corkscrew Pearl Handle, Brass Lined, Nickel Silver Bolsters, — 35 00

Half Dozen in a Box.

# Boat Oars.

**Ash, Copper Tipped.**

| Length, Feet, | 6 | 6½ | 7 | 7½ | 8 | 8½ | 9 | 10 |
|---|---|---|---|---|---|---|---|---|
| Code, | Nimiedad | Nimietas | Nimiety | Nimious | Nimirum | Nimmoia | Nimrah | Nimrim |
| Weight Per Pair, Net, lbs., | 6½ | 7 | 8 | 9 | 10 | 11¼ | 12½ | 14 |
| Per Foot, | $0.12 | .12 | .12 | .12 | .12 | .12 | .12 | .12 |

| Length, Feet, | 11 | 12 | 13 | 14 | 15 | 16 | 18 |
|---|---|---|---|---|---|---|---|
| Code, | Nimrod | Nimule | Nindain | Ninefold | Ninfante | Ninfassi | Ninfava |
| Weight Per Pair, Net, lbs., | 15 | 23 | 25 | 28 | 33 | 38 | 45 |
| Per Foot, | $0.12 | .12 | .15 | .15 | .15 | .16 | .18 |

**Ash, Plain.**

| Length, Feet, | 7 | 7½ | 8 | 8½ | 9 | 10 | 12 | 14 | 16 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|
| Code, | Ningorem | Ningoris | Ninguem | Ningunas | Ninharia | Ninhego | Ninlade | Ninlvite | Ninnios | Ninnium |
| Per Foot, | $0.11 | .11 | .11 | .11 | .11 | .11 | .11 | .14 | .15 | .17 |

**Spoon, Spruce, Leathered, Copper Tipped.**

| Length, Feet, | 6½ | 7 | 7½ | 8 |
|---|---|---|---|---|
| Code, | Ninox | Ninxero | Ninxit | Ninyas |
| Weight, Per Pair, Net, lbs., | 7 | 7¼ | 7½ | 8½ |
| Per Foot, | $0.30 | .30 | .30 | .30 |

## Life Preservers.

| | Code, Nipace | Per Dozen |
|---|---|---|
| No. 11 Solid Cork, Made According to Specification of U. S. Marine Board, Every Preserver Bears Local Inspection Stamp before leaving our store, Weight 98 lbs. Per Doz. | | $18.00 |
| No. 5X—Tule, | Code, Niphal | 15.00 |

## Life Buoys.

**Ring, Canvas, Cork Filled.**

| Outside Diam., In., | 19 | 24 | 27 |
|---|---|---|---|
| Code, | Nipsa | Nipotino | Nipper |
| Weight, Each, lbs., | 7 | 8 | 9 |
| Each, | $4.00 | 5.00 | 6.00 |

SCHWABACHER HARDWARE CO.

# Fenders.

Russia Hemp Rope, Cork Lined.

| Nos., | 11 | 12 |
|---|---|---|
| Code. | Nipptide | Niptra |
| Length, Inches, | 18 | 20 |
| Weight Each, lbs., | 13 | 15½ |
| Each, | $5.50 | 6.00 |

Canvas, Cork Filled, For Yachts.

| Nos., | 1 | 2 |
|---|---|---|
| Code. | Nirbisie | Nirenpan |
| Length, Inches, | 18 | 22 |
| Diameter, Inches, | 5 | 6 |
| Each, | $1.50 | 1.90 |

## Net Slings.

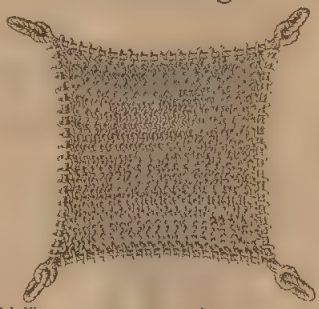
Code Nirham — Each

**No. 1**—12x12 Ft., Outside Frame 3¼ In. Circumference, Net 24 Thread Special Rope, Mesh 8x8 In., . . $30.00
Weight 75 lbs. Each.

Code Nirics

**No. 2**—14x14 Ft., Outside Frame 3¼ In. Circumference, Net 24 Thread Special Rope, Mesh 8x8 In., . 38.00
Weight 100 lbs. Each.

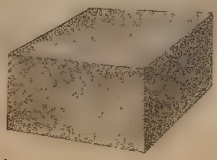
## Bullion Slings.



Code Nirvana — Each

**No. 5**—5x5 Ft., Frame 5 In. Circumference, Mat 2 In. Circumference, Will Carry Two Tons, . . . . . $35.00
Weight 125 lbs. Each.

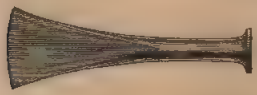
## Holystones.



Code Niscalo — Each

Plain, Without Band, 5½x6x8 In., . . $2.50
Weight 19 lbs. Each.

# Calking Irons.



### Reed's, Common or Making.

| Nos., | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| Code, | Nhards | Nhzados | Noachian | Noadiah |
| Thickness, In., | 1/16 | 1/8 | 3/16 | 1/4 |
| Wt. Per Doz., lbs., | 6¼ | 6½ | 6¾ | 7½ |
| Per Dozen, | $6.75 | 7.00 | 7.25 | 7.50 |

### Drew's, Common or Making.

| Nos., | 10 | 11 | 12 | 13 |
|---|---|---|---|---|
| Code, | Nobaten | Nobilor | Nodleman | Noblesse |
| Thickness, In., | 1/16 | 1/8 | 5/16 | 1/4 |
| Wt. Per Doz., lbs., | 5½ | 6 | 6½ | 7 |
| Per Dozen, | $12.00 | 12.00 | 12.00 | 13.00 |

### Reed's, Deck or Dumb.

| No., | 5 |
|---|---|
| Code, | Nocanza |
| Wt. Per Doz., lbs., | 8½ |
| Per Dozen, | $7.75 |

### Drew's, Deck or Dumb.

| No., | 10 |
|---|---|
| Code, | Noceur |
| Wt. Per Doz., lbs., | 8½ |
| Per Dozen, | $13.50 |

### Bent or Crooked.

Code Nobodies — Per Dozen

No. 0—Reed's, 6½ In. Long, . . . $7.75

Weight 8½ lbs. Per Dozen.

### Double Bent.

Code Nolsticks — Per Dozen

No. 0—Reed's, 6½ In. Long, . . . $10.00

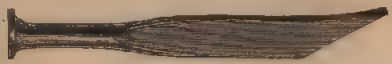
Weight 8 lbs. Per Dozen.

### Spike.

Code Nocake — Per Dozen

No. 4—Reed's, 9 In. Long, . . . $7.75

Weight 7 lbs. Per Dozen.



### Reefing or Clearing.

Code Nocchia — Per Dozen

No. 30—Reed's, 11 In. Long, . . . $7.75

Weight 8 lbs. Per Dozen.

### Sharp or Butt.

Code Nocella — Per Dozen

No. 20—Reed's, 10 In. Long, . . . $10.00

Weight 9 lbs. Per Dozen.

# Hawsing Irons.

### No. 25—Bent, Steel Blade, Natural Finish.

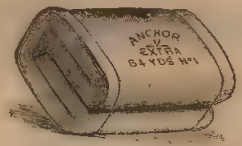
| Thickness Blade, In., | 5/16 |
|---|---|
| Code, | Nochtans |
| Wt. Per Doz., lbs., | 75 |
| Per Dozen, | $30.00 |

### No. 26 Straight, Steel Blade, Natural Finish.

| Thickness Blade, In., | ¼ |
|---|---|
| Code, | Nocitivo |
| Wt. Per Doz., lbs., | 65 |
| Per Dozen, | $20.00 |

SCHWABACHER HARDWARE CO.

# Cotton Duck.



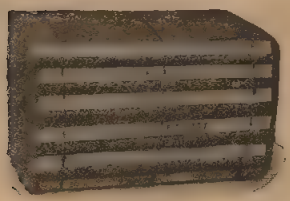

**Medium, Width 22 Inches.**

| Nos., | 00 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code, | Noctergia | Nocthore | Noctibus | Nocticola | Noctifer | Noctuas | Noctuino | Nocuosa | Nodandus | Nodatura | Nodavit | Nodded |
| Per Yard, | $0.42 | .40 | .38 | .36 | .34 | .33 | .31 | .30 | .29 | .28 | .26 | .24 |

**Standard Wide Duck.**

| Width Inches | No. 6 | | No. 8 | | No. 10 | |
|---|---|---|---|---|---|---|
| | Per Yard | Code | Per Yard | Code | Per Yard | Code |
| 30 | $0.41 | Noduto | $0.38 | Noiraude | $0.33 | Nolition |
| 36 | .50 | Noematic | .45 | Noisette | .40 | Nolleity |
| 42 | .58 | Noergie | .53 | Noisily | .47 | Nolletis |
| 48 | .66 | Noeros | .60 | Noising | .53 | Nomaccio |
| 54 | .74 | Noethen | .68 | Nojesto | .60 | Nomadize |
| 60 | .85 | Noetlein | .77 | Nokhalk | .68 | Nomadum |
| 66 | .93 | Nogagus | .85 | Nokhint | .75 | Nomancy |
| 72 | 1.04 | Nogarola | .96 | Noklood | .83 | Nomanza |
| 84 | 1.28 | Noggin | 1.16 | Nokpasard | 1.01 | Nombles |
| 96 | 1.64 | Nogmauls | 1.47 | Nokpan | 1.28 | Nombrado |
| 108 | 1.88 | Nogrobe | 1.60 | Nolam | 1.47 | Nombrant |
| 120 | 2.09 | Nogvette | 1.88 | Nolanace | 1.63 | Nombre |

# Oakum.



Code Nomenclature — Per Bale

Best Oakum, . . . . . $.....

Code Nominos

U. S. Navy Oakum, . . . . . .....

Code Nom. ial

Plumbers' Oakum, . . . . . .....

Weight 50 lbs. Per Bale.

# Calking Cotton.

Code Nomlope — Per Pound

No. 1—Spun Calking Cotton, in 1 lb. Bundles, $.....

Weight 50 lbs. Per Bale.

SCHWABACHER HARDWARE CO.

# Mast Hoops.

Wrought Iron, Galvanized.

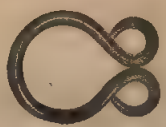
| Size, In., in Clear, | 3 | 3½ | 4 | 4½ | 5 | 5½ | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Code, | Nectarial | Nectique | Nectome | Nectosac | Nucune | Nedabiah | Needful | Needfully | Needment | Neelghau | Nefandas |
| Weight Per Dozen, lbs., | 2¼ | 2½ | 2⅞ | 3 | 3¼ | 3½ | 4 | 4½ | 5 | 6½ | 7 |
| Per Dozen, | $0.60 | .70 | .85 | 1.00 | 1.10 | 1.20 | 1.30 | 1.40 | 1.65 | 1.85 | 2.20 |

Code Nefaris — Per Dozen

Jib Rings, ⅝x3 In., Wrought Iron, Galvanized. . . . . $5.50

Weight 14 lbs. Per Dozen.

# Jib Hanks.



Single Stay, Wrought Iron, Galvanized.

| Size, In., | 1 | 1¼ | 1½ |
|---|---|---|---|
| Code, | Nefler | Nefond | Nefro |
| Weight Per Dozen, lbs., | ¾ | 1 | 1½ |
| Per Dozen, | $0.65 | .70 | .75 |

| Size, In., | 1¾ | 2 | 2¼ |
|---|---|---|---|
| Code, | Nefrodio | Nefrolite | Negabais |
| Weight Per Dozen, lbs., | 2 | 2½ | 3½ |
| Per Dozen, | $0.80 | .90 | 1.00 |

| Size, In., | 2½ | 3 |
|---|---|---|
| Code, | Negacss | Negador |
| Weight Per Dozen, lbs., | 4½ | 6 |
| Per Dozen, | $1.15 | 1.50 |

# Jib Snap Hooks.

Malleable Iron, Galvanized.

| Nos., | 1 | 2 | 3 |
|---|---|---|---|
| Code, | Negatos | Negavel | Negenoog |
| Diam. of Stay, In., | 5/16 | ⅝ | ½ |
| Weight Per Dozen, lbs., | 1½ | 1¾ | 2¾ |
| Per Dozen, | $1.50 | 1.75 | 2.50 |

# Boat Snap Hooks.

Malleable Iron, Galvanized.

| Nos., | 0 | 1 | 2 |
|---|---|---|---|
| Code, | Negietto | Neglexit | Negoca |
| Diam. of Eye, In., | 7/16 | ⅝ | ¾ |
| Diam. of Stay, In., | ¼ | 5/16 | ⅜ |
| Weight Per Dozen, lbs., | 1¼ | 1½ | 2 |
| Per Dozen, | $1.25 | 1.50 | 1.75 |

# Boat Cleats.

Square Base.
Malleable Iron, Galvanized.

Open Base.
Malleable Iron, Galvanized.

| Nos. | Length Inches | Per Dozen | Code | Weight Per Dozen Lbs. | Nos. | Length Inches | Per Dozen | Code | Weight Per Dozen Lbs. |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | $0.50 | Negotia | 1 | 7 | 3½ | $ 1.00 | Neidhau | 3 |
| 1½ | 2¾ | .60 | Negotior | 2 | 8 | 4½ | 1.40 | Neidest | 3½ |
| 2 | 3¼ | .80 | Negozio | 3½ | 9 | 5½ | 1.65 | Neidgeib | 5 |
| 3 | 3¾ | 1.00 | Negraco | 5 | 10 | 6 | 2.30 | Neidig | 7 |
| 4 | 4½ | 1.75 | Negral | 6½ | 11 | 7 | 2.80 | Neidlos | 13 |
| 5 | 5½ | 2.00 | Negreaba | 10 | 12 | 8 | 3.50 | Neidsack | 18 |
| 6 | 6 | 3.00 | Negreros | 15 | 13 | 9 | 4.50 | Neidfy | 22 |
| | | | | | 14 | 10 | 6.00 | Neige | 25 |
| | | | | | 15 | 12 | 9.00 | Neigeux | 46 |
| | | | | | 16 | 14 | 15.00 | Neigung | 82 |
| | Polished Brass. | | | | | Polished Brass. | | | |
| 1 | 2 | $1.50 | Negrilbo | 3 | 7 | 3½ | $ 3.00 | Neillie | 2¼ |
| 2 | 3¼ | 3.00 | Negrilla | 4 | 8 | 4½ | 3.75 | Neirom | 2½ |
| 4 | 4½ | 5.00 | Negrillon | 7¾ | 9 | 5½ | 5.00 | Neithee | 6¼ |
| | | | | | 10 | 7 | 8.00 | Neixenea | 8½ |
| | | | | | 13 | 9 | 15.00 | Neixente | 30 |

# Ship Cleats.

Cast Iron, Galvanized.

# Davit Cleats.

Malleable Iron, Galvanized.

| Length Top Inches | Per Pound | Code | Weight Each, Lbs. | To Fit Davit Iron Inches | Length Inches | Each | Code | Weight Each, Lbs. |
|---|---|---|---|---|---|---|---|---|
| 13 | $0.14 | Nekapier | 10½ | 3 | 14½ | $2.00 | Neahum | 9 |
| 15 | .14 | Nekstuk | 16 | 3½ | 14½ | 2.35 | Nenhures | 12¾ |
| 18 | .14 | Nekusle | 24½ | 4 | 14½ | 2.75 | Nenlamur | 18½ |
| 24 | .14 | Nelgada | 36 | | | | | |
| 28 | .14 | Nelltria | 52 | | | | | |
| 32 | .14 | Nelombo | 94 | | | | | |
| 36 | .14 | Nelomya | 100 | | | | | |

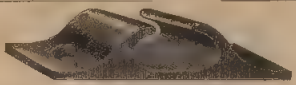
# Chocks.

## Straight, Cast Iron, Galvanized.

| Inches | Per Dozen | Code | Weight Per Dozen Lbs. | Inches | Per Pound | Code | Weight Each Lbs. |
|---|---|---|---|---|---|---|---|
| 3½ | $1.00 | Neolatina | 6 | 10½ | $0.14 | Neonism | 6 |
| 4 | 1.35 | Neolite | 8 | 13 | .14 | Neopetre | 14 |
| 4½ | 1.70 | Neologic | 9 | 15 | .14 | Neophobe | 24 |
| 5 | 2.00 | Neologo | 12 | 18 | .14 | Neophyte | 36 |
| 5½ | 2.35 | Neomagus | 18 | 20 | .14 | Neoplase | 38 |
| 6½ | 3.70 | Neomides | 21 | 24 | .14 | Neopum | 48 |
| 7½ | 5.35 | Neomeris | 36 | 30 | .14 | Nepalais | 98 |
| 8½ | 8.00 | Neonya | 57 | | | | |

## Straight, Polished Brass.

| Inches | Per Dozen | Code | Weight Per Dozen Lbs. | Inches | Per Dozen | Code | Weight Per Dozen Lbs. |
|---|---|---|---|---|---|---|---|
| 4 | $4.80 | Nepetus | 6 | 7 | $15.00 | Nephews | 33 |
| 5 | 8.50 | Nepheg | 8½ | 8 | 24.00 | Nephode | 60 |
| 6 | 10.80 | Nephese | 22 | 10 | 36.00 | Nephroid | 84 |



Port, Light, Cast Iron, Galvanized.

Starboard, Light, Cast Iron, Galvanized.

| Length Inches | Each | Code | Weight Each | Length Inches | Each | Code | Weight Each Lbs |
|---|---|---|---|---|---|---|---|
| 3 | $0.13 | Nepotaie | ⅓ | 3 | $0.13 | Neresza | ⅓ |
| 4½ | .16 | Nepotalis | ⅔ | 4½ | .16 | Nericante | ⅔ |
| 5½ | .27 | Nepote | ⅚ | 5½ | .27 | Nerines | ⅚ |
| 6½ | .47 | Nepotien | 1½ | 6½ | .48 | Nerinos | 1½ |
| 8 | .80 | Nepotilla | 2½ | 8 | .80 | Nerion | 2½ |
| 10½ | 1.20 | Nepotina | 4¼ | 10½ | 1.20 | Nerissa | 4¼ |
| 12 | 2.00 | Nepoticus | 6½ | 12 | 2.00 | Neritace | 6½ |

## Port, Heavy, Cast Iron, Galvanized.

| | | | |
|---|---|---|---|
| 10½ | $0.18 Per Lb. | Nepthali | 9½ |
| 12 | | Neptuno | 14 |
| 15 | | Nepuce | 26 |
| 18 | | Nequam | 33 |
| 20 | | Nequs | 40 |

## Starboard, Heavy, Cast Iron, Galvanized.

| | | | |
|---|---|---|---|
| 10½ | $0.18 Per Lb. | Nerais | 9½ |
| 12 | | Nertere | 14 |
| 15 | | Nerthops | 26 |
| 18 | | Nerull | 33 |
| 20 | | Nerval | 40 |

## Port, Light Pattern, Polished Brass.

| | | | |
|---|---|---|---|
| 4½ | $0.85 | Nequier | ⅛ |
| 5½ | 1.50 | Nequiron | 1 |
| 6½ | 2.00 | Nequivit | 1¼ |
| 8 | 3.00 | Nerastro | 2¾ |
| 10 | 5.00 | Nerutio | 3 |

## Starboard, Light Pattern, Polished Brass.

| | | | |
|---|---|---|---|
| 4½ | $0.85 | Nervaux | ⅛ |
| 5½ | 1.50 | Nervicht | 1 |
| 6½ | 2.00 | Nervien | 1½ |
| 8½ | 3.00 | Nerviger | 2¾ |
| 10½ | 5.00 | Nervigno | 3 |

## Closed Chocks, Cast Iron, Galvanized.

| | | |
|---|---|---|
| Length, In., | 13 | 15 |
| Code, | Nesaplos | Nesapium |
| Weight Each, lbs., | 18 | 23 |
| Per Pound, | $0.14 | .14 |

# Fair Leaders.

Code Nescock — Per Dozen
No. 2 Babbitt, ⅞ In. Hole, Polished Brass, with Screw, . . . . . $1.50
Weight 3½ lbs. Per Dozen.

Style C—Polished Brass.

| Nos., | 1 | 2 |
|---|---|---|
| Code, | Nesokie | Nesope |
| Opening, In., | ½ | ⅝ |
| Weight Per Dozen, lbs., | 1½ | 1½ |
| Per Dozen, | $4.00 | 6.00 |

Style B—Polished Brass, with Pulley.

| Nos., | 2 | 3 |
|---|---|---|
| Code, | Nespola | Nessel |
| Opening, In., | ⅝ | ¾ |
| Weight Per Dozen, lbs., | 3½ | 4 |
| Per Dozen, | $10.00 | 12.00 |

# Stanchion Posts.

End Posts, Galvanized Iron.

| Nos., | 20 | 30 | 50 |
|---|---|---|---|
| Code, | Nessonis | Nessuno | Nestalik |
| Height Post, In., | 2½ | 3 | 4 |
| Height Hand Rail, In., | 2¼ | 2¾ | 3¾ |
| For Hand Rail, In., | ⅝ | ⅝ | ¾ |
| Weight Each, lbs., | ⅝ | ⅞ | 1 |
| Each, | $0.30 | .45 | .75 |

Center Posts, Galvanized Iron.

| Nos., | 120 | 130 | 150 |
|---|---|---|---|
| Code, | Nestenen | Nestegg | Nestkorf |
| Weight Each, lbs., | ½ | ¾ | 1 |
| Each, | $0.30 | .45 | .75 |

Bow Posts, Galvanized Iron.

| Nos., | 220 | 230 | 250 |
|---|---|---|---|
| Code, | Nestling | Nestor | Nethopd |
| Weight Each, lbs., | ⅓ | ¾ | 1 |
| Each, | $0.45 | .60 | .90 |

End Posts, Polished Brass.

| Nos., | 2 | 3 | 5 |
|---|---|---|---|
| Code, | Netelger | Netinho | Netklop |
| Height Post, In., | 2½ | 3 | 4 |
| Height Hand Rail, In., | 2¼ | 2¾ | 3¼ |
| For Hand Rail, In., | ⅝ | ⅝ | ¾ |
| Weight Each, lbs., | ½ | ¾ | 1 |
| Each, | $0.55 | .75 | 1.20 |

Center Posts, Polished Brass.

| Nos., | 12 | 13 | 15 |
|---|---|---|---|
| Code, | Nettarao | Neturi | Netvlies |
| Weight Each, lbs., | ½ | ¾ | 1 |
| Each, | $0.55 | .75 | 1.20 |

Bow Posts, Polished Brass.

| Nos., | 22 | 23 | 25 |
|---|---|---|---|
| Code, | Netschen | Netshaut | Netzring |
| Weight Each, lbs., | ½ | ¾ | 1 |
| Each, | $0.75 | .90 | 1.35 |

Dimensions of Center and Bow Posts same as End Posts.

# Port Hinges.

Malleable Iron, Galvanized, Brass Pin.

| Entire Length, In., | 4 | 5 | 6 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|
| Code. | Neuerung | Neugier | Neuheit | Neujahr | Neume | Neumond |
| Weight Per Pair, lbs., | 1 | 1½ | 1¾ | 2½ | 3½ | 4½ |
| Per Pair, | $0.60 | .70 | .80 | 1.00 | 1.50 | 2.00 |

Plain Brass, Brass Pin.

| Entire Length, In., | 4 | 5 | 6 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|
| Code. | Neuneck | Neunfach | Neuntel | Neurada | Neuradia | Neuralgy |
| Weight Per Pair, lbs., | 1 | 1½ | 1¾ | 2½ | 3½ | 5 |
| Per Pair, | $0.90 | 1.00 | 1.20 | 1.50 | 2.20 | 3.00 |

# Strap Hinges.

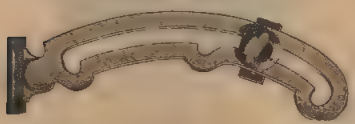
Malleable Iron, Galvanized, Brass Pin.

| Entire Length, In., | 6 | 8 | 10 | 12 |
|---|---|---|---|---|
| Code. | Neusader | Neusdeck | Neusgat | Neuzhaar |
| Weight Per Pair, lbs., | 1 | 1½ | 2 | 2½ |
| Per Pair, | $0.60 | .80 | 1.20 | 1.80 |

Plain Brass, Brass Pin.

| Entire Length, In., | 6 | 8 | 10 | 12 |
|---|---|---|---|---|
| Code. | Neusstuk | Neustoon | Neuswond | Neusworm |
| Weight Per Pair, lbs., | 1 | 1½ | 2 | 2½ |
| Per Pair, | $1.00 | 1.30 | 2.00 | 2.80 |

# Skylight Quadrants.



Polished Brass.

| Length, In., | 10 | 12 |
|---|---|---|
| Code. | Nevicata | Nevicosa |
| Weight Per Pair, lbs., | 1¾ | 2¼ |
| Per Pair, | $3.75 | 4.50 |

# Cuddy Door Hinges.

Boston Pattern, Polished Brass.

| Entire Length, In., | 3 | 4 | 5 |
|---|---|---|---|
| Code. | Neuwahl | Neuzet | Nevalue |
| Weight Per Pair, lbs., | ½ | ¾ | 1¼ |
| Per Pair, | $0.70 | 1.00 | 1.50 |

# Hinge Hasps.

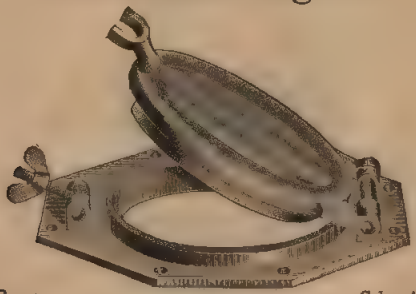
Malleable Iron, Galvanized, Brass Pin.

| Entire Length, In., | 4 | 5 | 6 |
|---|---|---|---|
| Code. | Nevisti | Nevasca | Nevoado |
| Weight Each, lbs., | ¾ | 1 | 1¼ |
| Each, | $3.00 | 4.00 | 4.80 |

Polished Brass, Brass Pin.

| Entire Length, In., | 4 | 5 | 6 |
|---|---|---|---|
| Code. | Newness | Newsboy | Newsman |
| Weight Each, lbs., | ½ | ¾ | 1 |
| Each, | $8.00 | 10.50 | 13.00 |

# Side or Port Lights.



**Plain Brass.**

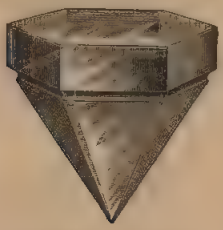
| Opening, In., | 6 | 7 | 8 | 10 |
|---|---|---|---|---|
| Code, | Nexands | Nexandus | Nexfile | Nexiase |
| Wt. Each, lbs., | 12 | 14½ | 30 | 32 |
| Each, | $6.00 | 7.50 | 9.00 | 18.00 |

**Galvanized Iron.**

| Opening, In., | 6 | 7 | 8 | 10 |
|---|---|---|---|---|
| Code, | Nexorum | Nexucel | Nexrusm | Nexuros |
| Wt. Each, lbs., | 12 | 14 | 30 | 32 |
| Each, | $4.00 | 4.75 | 5.75 | 11.00 |

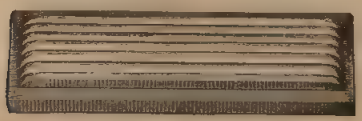
We can furnish extra Port Light Glasses any size desired; kindly send drawing to show size and shape as desired to avoid mistakes.

# Deck Lights.



**Glass, Hexagon Pointed.**

| Diam. Face, In., | 3 | 4 |
|---|---|---|
| Code, | Nexus | Nexish |
| Weight Per Dozen, lbs., | 24 | 48 |
| Per Dozen, | $6.00 | 12.00 |



**Glass, Oblong, Ribbed.**

| Length, In., | 9½ | 10½ |
|---|---|---|
| Code, | Nisisct | Nibbio |
| Width Face, In., | 2½ | 3½ |
| Weight Per Dozen, lbs., | 48 | 72 |
| Per Dozen, | $14.40 | 24.00 |

# Deck Plates.

**Polished Brass, Threaded for Iron Pipe.**

| For Pipe, In., | ¾ | 1 | 1¼ | 1½ |
|---|---|---|---|---|
| Code, | Nicasio | Nicatoris | Nicchio | Niccolsts |
| Wt. Each, lbs., | ½ | ¾ | 1 | 1¼ |
| Each, | $1.50 | 1.80 | 2.25 | 3.00 |

**Polished Brass, with Key.**

| Opening, In., | 1 | 1¼ | 1½ | 2 | 2½ |
|---|---|---|---|---|---|
| Code, | Nicely | Nicemant | Niceness | Niceros | Nicheux |
| Wt. Each, lbs., | ⅝ | ⅝ | ¾ | 1½ | 1¾ |
| Each, | $0.70 | .80 | .90 | 1.20 | 1.60 |

| Opening, In., | 3 | 3½ | 4½ | 5 |
|---|---|---|---|---|
| Code, | Nichllo | Nichts | Nichus | Nichppe |
| Wt. Each, lbs., | 2¼ | 2½ | 3 | 3½ |
| Each, | $2.20 | 2.80 | 3.20 | 4.40 |

# Pocket Knives.

## New York Knife Co.'s, Warranted.

Full Size Cuts.

Per Dozen.

**No. 239** Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolster, $7.75

Per Dozen.

**No. 2347**—Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolster, $5.00
**No. 2430**—Two Blades, Cocoa Handle, Steel Lined, Polished Steel Bolster, 4.00
**No. 241**—Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolster, 8.00

Per Dozen.

**No. 2337**—Two Blades, Ebony Handle, Brass Lined Nickel Silver Bolster, $7.00

Per Dozen.

**No. 273**—Two Blades, Ebony Handle, Steel Lined, Heavy Nickel Silver Bolster, $9.50
**No. 2471**—Two Blades, Ebony Handle, Steel Lined, Polished Steel Bolster, 7.80

Per Dozen.

**No. 248** Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolster, $8.40

Per Dozen.

**No. 2495**—Two Blades, Cocoa Handle, Steel Lined, Polished Steel Bolster $8.50

Half Dozen in a Box.

# Pocket Knives.

New York Knife Co.'s, Warranted.

Full Size Cuts.

Per Dozen.

No. 2034—Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolster, . . $9.00
No. 237—Two Blades, Stag Handle, Brass Lined, Nickel Silver Bolster, . . 9 00

Per Dozen

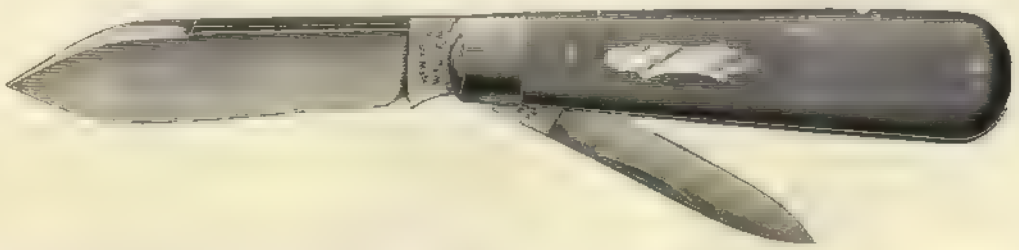
No. 2330 Two Blades, Cocoa Handle, Steel Lined, Polished Steel Bolster, $4.50

Per Dozen.

No. 2296—Two Blades, White Bone Handle, Brass Lined, Nickel Silver Bolster, Not Etched, $9.50
No. 2295—Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolster, Etched, . . 9 00

Per Dozen.

No. 2153 Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolster, . $9 00



Per Dozen.

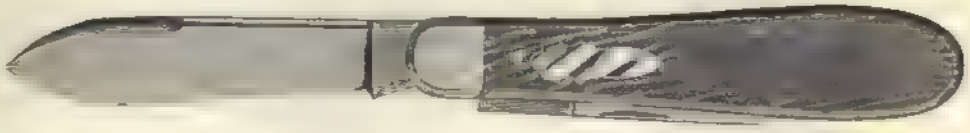
No. 2450—Two Blades, Cocobolo Handle, Steel Lined, Polished Steel Bolster, . . $6 00
No. 2828—Two Blades, White Bone Handle, Steel Lined, Polished Steel Bolster, . 8 00

Half Dozen in a Box

# Pocket Knives.

New York Knife Co.'s, Warranted.

Full Size Cuts



**No. 258** Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolster, . . Per Dozen $8.00

**No. 2109** Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolster, Per Dozen, $10 00

**No. 2145** Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolster, . . Per Dozen $9 50

**No. 2242** Two Blades, Cocoa Handle, Steel Lined, Polished Steel Bolster, . Per Dozen $8 50

**No. 2245** Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolster, Per Dozen $7 50

**No. 2017**—Two Blades, Ebony Handle, Steel Lined, Polished Steel Bolster, . . . . . Per Dozen $9 00

Half Dozen in a Box.

# Pocket Knives.

## New York Knife Co.'s, Warranted.

Full Size Cuts

Per Dozen.

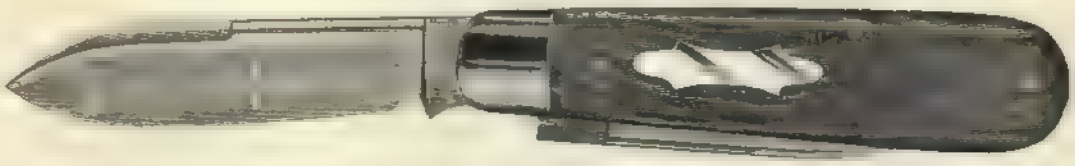
No. 2750—Two Blades, Cocobolo Handle, Steel Lined, Polished Steel Bolster. $6.50

Per Dozen.

No. 2742—Two Blades, Cocoa Handle, Steel Lined, Polished Steel Bolster. . . . . $7.50
No. 2761—Two Blades, Ebony Handle, Steel Lined, Nickel Silver Bolster, . . . . . 8.00

Per Dozen

No. 2818—Two Blades, Cocoa Handle, Brass Lined, Polished Steel Bolster. $8 00



Per Dozen

No. 2173—Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolster. . . . $10 00
No. 275—Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolster, . 10 50

Per Dozen

No. 2091—Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolster. . $9 50

Half Dozen in a Box

# Pocket Knives.

New York Knife Co.'s, Warranted.

Full Size Cuts.

Per Dozen

**No. 2741**—Two Blades, Cocobolo Handle, Steel Lined, Polished Steel Bolster. . . . . $6.70

Per Dozen

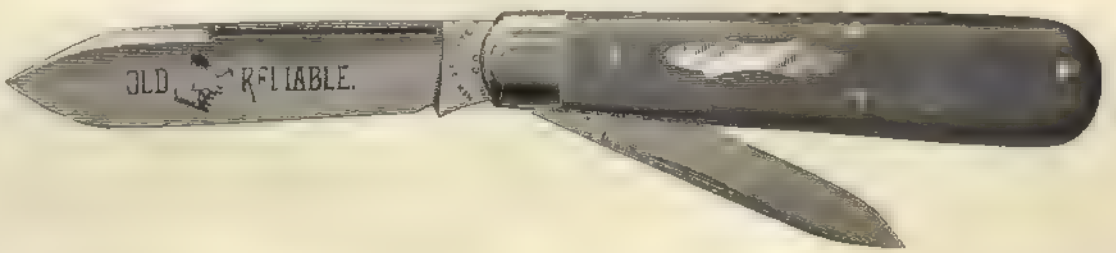
**No. 2372**—Two Blades, Cocoa Handle, Steel Lined, Nickel Silver Bolster, . . . . . $8 50
**No. 2460**—Two Blades, Cocoa Handle, Steel Lined, Polished Steel Bolster, . . . . . 7.00

Per Dozen

**No. 233**—Two Blades, Ebony Handle Brass Lined, Nickel Silver Bolster. . $9.00

Per Dozen

**No. 2240**—Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolster, . . . . . $10.50
**No. 2916**—Two Blades, Cocoa Handle, Steel Lined, Polished Steel Bolster, . . . . . 9 00




Per Dozen

**No. 2762**—Two Blades, Cocobolo Handle, Steel Lined, Polished Steel Bolster, . . . . . $7.80
**No. 2764**—Two Blades, Stag Handle, Steel Lined, Polished Steel Bolster, 8 40

Half Dozen in a Box

# Pocket Knives.

## New York Knife Co.'s, Warranted.

Full Size Cuts

Per Dozen.

**No. 1755**—One Blade, Cocobolo Handle, Steel Lined, Polished Steel Bolster, . . . . . $4.30
**No. 2755**—Two Blades, Cocobolo Handle, Steel Lined, Polished Steel Bolster, . . 6.50

Per Dozen.

**No. 2933**—Two Blades, Stag Handle, Brass Lined, Polished Steel Bolster, . . $9 00

Per Dozen.

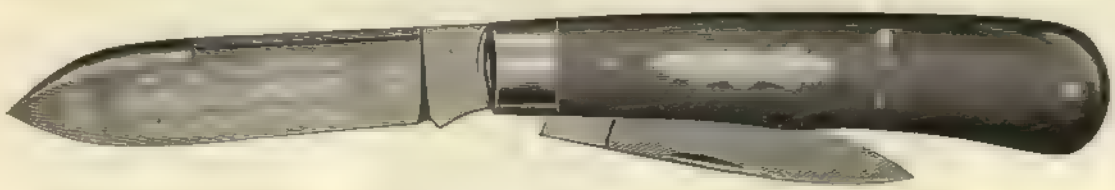
**No. 2790** Two Blades, Cocoa Handle, Steel Lined, Nickel Silver Bolster. . . . $10 00

Per Dozen.

**No. 2820** Two Blades, Cocoa Handle, Brass Lined, Fancy Nickel Silver Bolster, $10 00

Per Dozen.

**No. 2493**—Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolster, . . . $9.00



Per Dozen.

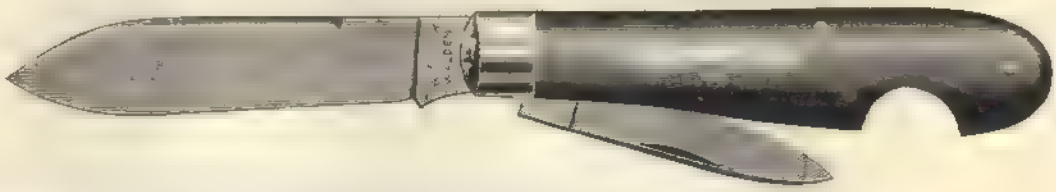
**No. 2413**—Two Blades, Cocobolo Handle, Brass Lined, Nickel Silver Bolster. . . $9.00

Half Dozen in a Box

# Pocket Knives.

New York Knife Co.'s, Warranted.

Full Size Cuts.



Per Dozen.

**No. 2560** Two Blades, Cocoa Handle, Steel Lined, Polished Steel Bolster, . . . $7.50
**No. 2573**—Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolster, . . . . . 8.50

Per Dozen.

**No. 2111** Two Blades, Cocobolo Handle, Steel Lined, Polished Steel Bolster, . . . . $6.00

Per Dozen.

**No. 1156**—One Blade, Cocobolo Handle, Steel Lined, Polished Steel Bolster, . . . . . $4.50
**No. 2156**—Two Blades, Cocobolo Handle, Steel Lined, Polished Steel Bolster, . . . . . 6.50

Per Dozen.

**No. 256** Two Blades, Cocoa Handle, Steel Lined, Polished Steel Bolster. $8 00

Per Dozen.

**No. 254**—Two Blades, Cocoa Handle, Steel Lined, Nickel Silver Bolster, . . . . $10.00

Half Dozen in a Box

# Pocket Knives.

## New York Knife Co.'s, Warranted

Full Size Cuts.

**No. 2052**—Two Blades, Ebony Handle, Brass Lined Nickel Silver Bolsters. — Per Dozen. $9 50

**No. 242**—Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters. — Per Dozen. $ 9 00
**No. 2287**—Two Blades, White Bone Handle, Brass Lined, Nickel Silver Bolsters, — 10 00
**No. 2289**—Two Blades, Pearl Handle, Brass Lined, Nickel Silver Bolsters. — 17 50

**No. 2169**—Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters, — Per Dozen. $8 50
**No. 2170** Two Blades, White Bone Handle, Brass Lined Nickel Silver Bolsters. — 9.50

**No. 2369**—Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters. — Per Dozen $9 00

**No. 2872**—Two Blades, Cocos Handle, Brass Lined, Nickel Silver Bolsters. — Per Dozen. $10.00

**No. 2749** Two Blades, Ebony Handle, Steel Lined, Polished Steel Bolsters 18 in Nickel Plated Chain, — Per Dozen. $8 50
**No. 2759**—Two Blades, Stag Handle, Steel Lined, Polished Steel Bolsters, 18 in Nickel Plated Chain, — 9.00

Half Dozen in a Box.

# Pocket Knives.

## New York Knife Co 's, Warranted.

Full Size Cuts

**No. 2357**—Two Blades, Cocobolo Handle, Brass Lined, Nickel Silver Bolsters, . . . .

Per Dozen
$7.25

**No. 2975**—Two B ades, Cocobolo Handle, Brass Lined, Nickel Silver Bolsters,

Per Dozen
$11 00

**No. 2953** Two Blades, Cocobolo Handle, Brass Lined, Nickel Silver Bolsters, . .

Per Dozen.
$8.50

**No. 2226** Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters. . .

Per Dozen
$9 00

**No. 2073**—Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters.

Per Dozen.
$9.50

**No. 2094**—Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, . . . . . .

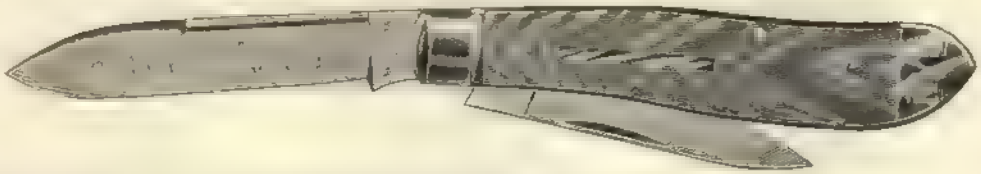
Per Dozen
$10.50

Half Dozen in a Box

# Pocket Knives.

## New York Knife Co.'s, Warranted.

Full Size Cuts



**No. 2425**—Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters. . . Per Dozen. $10 50

**No. 2805** Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters. . . Per Dozen $12 00

| | | Per Dozen. |
|---|---|---|
| **No. 2835**— | Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, Etched, 3¾ in . . . | $10 50 |
| **No. 2536**— | Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters, Not Etched, 3¾ in., | 11.50 |
| **No. 2435**— | Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, Etched, 3¼ in., . | 10 00 |
| **No. 2437** | Two Blades, White Bone Handle, Brass Lined, Nickel Silver Bolsters Not Etched, 3¼ in | 10 50 |
| **No. 2636**— | Two Blades, Ebony Handle, Brass Lined, Polished Steel Bolsters Not Etched, 3¼ in , . | 8 50 |

**No. 2531** Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters, Per Dozen. $10 50

**No. 2710** Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters . Per Dozen. $11 00

**No. 2515**—Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, . . . . . Per Dozen $12 50

Half Dozen in a Box.

# Pocket Knives.

## New York Knife Co.'s, Warranted.

Full Size Cuts.

**No. 2420**—Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, . . . Per Dozen $8.00

**No. 2525** -Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, . Per Dozen $8 50

**No. 2206**—Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters, . . . . . Per Dozen. $10 00

**No. 2203**—Two Blades, White Bone Handle, Brass Lined, Nickel Silver Bolsters, . . . Per Dozen. $10.50
**No. 2201**—Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, . . . . 9 00
**No. 228** —Two Blades, Cocoa Handle, Steel Lined, Polished Steel Bolsters, . 8 00

**No. 2925**—Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, . . . Per Dozen. $9.00

**No. 2022**—Two Blades, Stag Handle, Brass Lined, Nickel Silver Bolsters, . Per Dozen. $9 80
**No. 2020**—Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, . . 9.50

Half Dozen in a Box

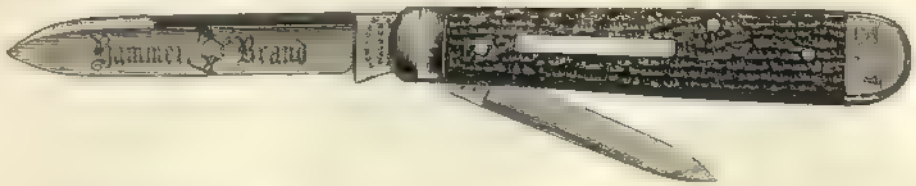
# Pocket Knives.

## New York Knife Co.'s, Warranted.

Full Size Cuts.

Per Dozen.

**No. 261**—Two Blades, Stag Handle, Brass Lined, Nickel Silver Bolsters, . . . . . $10.50
**No. 260** Two Blades, Ebony Handle, Nickel Silver Lined, Nickel Silver Bolsters, . . 10.50

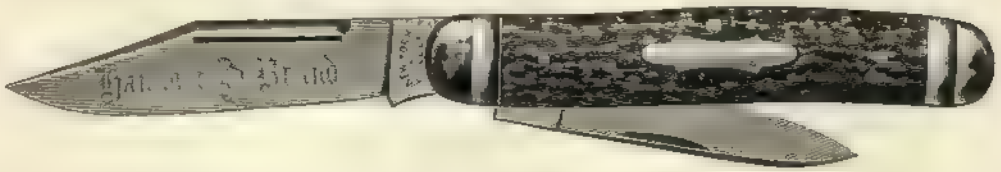



Per Dozen.

**No. 2288** Two Blades, Stag Handle, Brass Lined, Nickel S lver Bolsters, . . . . . $10 00

Per Dozen.

**No. 2335**—Two Blades, Stag Handle, Brass Lined, Nickel Silver Bolsters, . . . . $9 00
**No. 2332**—Two Blades, Cocoa Handle, Brass Lined, Nickel Silver Bolsters, . . . . 8.40

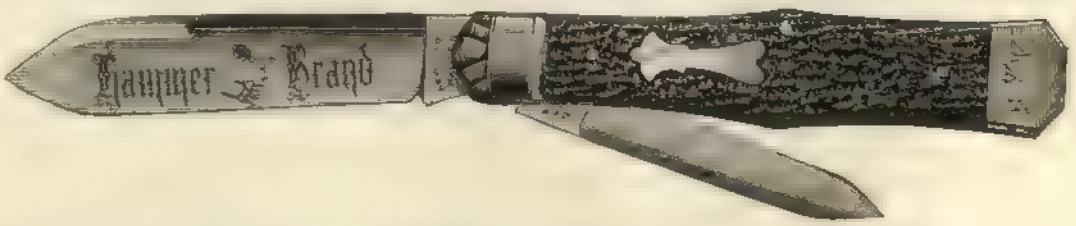


Per Dozen.

**No. 2708**—Two Blades, Stag Handle, Brass Lined, Hollow Steel Bolsters, . . . . $10.50
**No. 2706**—Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters, . . . 10 00

Per Dozen.

**No. 2733**—Two Blades, Stag Handle, Brass Lined, Nickel Silver Bolsters, . . . $11.50
**No. 2731**—Two Blades, Ebony Handle, Brass Lined, Nickel Silver Bolsters, . . 11.00



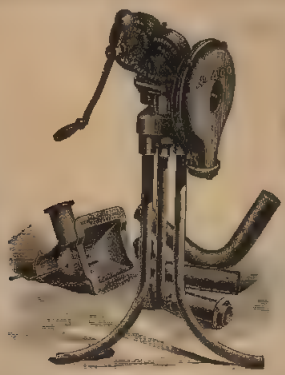

Per Dozen.

**No. 2803**—Two Blades, Stag Handle, Brass Lined, Fancy Nickel Silver Bolsters, . $12.00
**No. 2801**—Two Blades, Ebony Handle, Brass Lined, Fancy Nickel Silver Bolsters, . 12.00

Half Dozen in a Box.

# Blacksmiths' Blowers.

SCHWABACHER HARDWARE CO.



Code Engroscar — Each

**No. 400—Champion, Ball Bearing, 12 In. Fan, Wrought Pipe Stand, with No. 400 Whirlwind Anti-Clinker Tuyere Iron, . . . . . $37.00**

**Weight 150 lbs. Each.**

The 6-inch Phosphor Bronze concaved Spiral Gear and the Tool Steel Spiral Shaft are the same size in diameter and have the same size teeth that are used on Spiral Gears or Spiral Shafts running at 20,000 revolutions per minute, and even more, and at this extreme high speed carry heavy loads, while the No. 400 Blower running at one-tenth the above number of revolutions per minute produces all the blast any fire can consume. The No. 400 Champion "Patented" High Speed Spiral Gearing with its 6-inch concave Spiral Gear riding the Spiral Shaft lengthwise, meshes eight (8) full teeth of the Spiral Gear continuously in eight (8) full teeth of the Spiral Shaft, which forever makes lost motion or noise impossible.

Code Engorgeth — Each

**No. 70—Champion Midway, 12 In. Fan, with Cast Iron Stand and Heavy Center Blast Nest Ball Tuyere Iron, . $30.00**

**Weight 150 lbs. Each.**

The Champion "Midway" Spiral Gearing is simple in construction and without small gears or pinions and therefore is durable and practical, where the advantages of a white heat pressure blast, such as the No. 400 Blower only can furnish, is not required. The gearing runs in oil in a dust-proof casing; the crank turns in either direction to make the blast.

Code Engoriar — Each

**No. 1—Lancaster Geared, with 12 In. Fan, Tuyere Iron and Piping, Complete, . $20.00**

**Weight 120 lbs. Each.**

No. 1 Champion Lancaster Geared Blower is a well built, cheap, direct-driven Blacksmith Blower, which has been built to meet the demand for a cheaper Blacksmith Blower than the famous No. 400 Champion "Patented" High-Speed Spiral Geared Blower, or the No. 70 "Midway." This Blower, as will be seen by illustration, is supplied with the Champion Adjustable Nozzle Tuyere Iron; it is smooth running, crank turns either way to make the blast.

# Blacksmiths' Blowers.

Code Engpass — Each

**No. 1894**—Leader, Fan 16 In., With 28 In. Fly Wheel, Tuyere Iron and Piping Complete, . . . . . $18.00
Weight 135 lbs. Each.

The mechanical self-acting and simple lever motion has nothing about it to get out of order. The Blower is perfect in construction, durable and light-running. For all those who are desirous of having a Lever Blower, we recommend this Blower as being a very good one for the money it costs. Fan 16 in. and Fly-wheel 28 In in diameter. It has the capacity of a 60-inch Bellows. It is supplied with Patent Adjustable Nozzle Tuyere Iron.

Champion.

Code Engrapas — Each

**No. 0**—10 In. High, For 1 Fire, . . . $8.00
Weight 21 lbs. Each.

Code Engrasins

**No. 00**—14 In. High, For 2 Fires, . . 10.00
Weight 42 lbs. Each.

Code Engrases

**No. 000**—16½ In. High, For 3 Fires, . . 12.00
Weight 60 lbs. Each.

While they are built in the most practical manner for hand power, for steam power we can only recommend them where a light current of air is required. They are built to meet a demands for a cheap Power Blower and Exhaust Fan. This Blower is intended for blowing fires in portable and small stationary boilers, also for forge fires and various purposes where a small current of air is desired.

# Tuyere Irons.

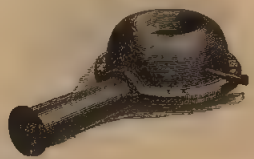
Code Engrogne — Each

**No. 400**—Champion or Whirlwind Anti-Clinker, 5 In. Deep, 8¾ In. Wide, 10½ In. Long, 12⅝x14¾ In. Overall, $10.00
Weight 60 lbs. Each.

The No. 400 "Whirlwind" Blast Anti-Clinker Heavy Nest Tuyere Iron is supplied with a revolving pick to pick the clinkers out of the side slots, therefore the slots can always be kept open without disturbing the fire from the top, assuring you at all times a full capacity of blast and guaranteeing a clean, powerful fire under all conditions

Code Engrossed — Each

**No. 5**—Single Duck's Nest, . . . . $1.25
Weight 15 lbs. Each.



Code Engrotar — Each

**No. 2**—Clark's, With Ball Valve, . . . $3.10
Weight 22 lbs. Each.

Code Engsinn

**No. 3**—Clark's, With Ball Valve, . . . 3.60
Weight 27½ lbs. Each.

# Portable Forges.

Code Engzigo

No. 71—Champion Midway, Cast Iron Hearth 32x45 In., Height 30 In., Fan 12 In. Diam., without Water Tank, . . . . . $50.00

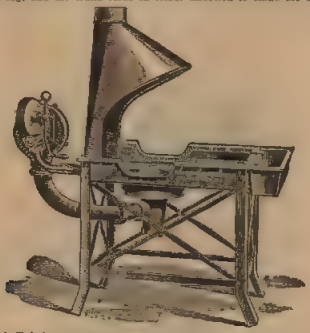
Weight 225 lbs. Each.

Code Engulfed

No. 71T—Champion Midway, with Water Tank, otherwise same as No. 71, . . . . . 55.00

Weight 255 lbs. Each.

The gearing used for producing the blast in this Forge is the Champion "Midway" or Cross-Spiral gearing. It is simple in construction and without small gears or pinions, therefore is durable and practical, where the advantages of a white heat pressure blast, such as only the Champion High-Speed Spiral-Geared Forges can produce, is not required. We recommend this Forge as a strong, durable, Cast Iron Forge. The gearing is enclosed in a dust-proof casing, and the crank turns in either direction to make the blast.



Code Enhale — Each

No. 407—Champion Steel Machinists' Forge, with Half Hood, Hearth 30x30 In., Height 30 In., Fan 10 In., without Water Tank, . . . . . $60.00

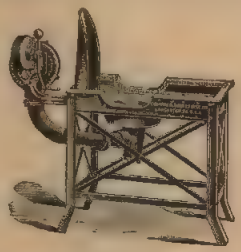
Weight 175 lbs. Each.

Code Enhaleing

No. 407T—With Water Tank, otherwise as No. 407, . . . . . 65.00

Weight 200 lbs. Each.

No. 407 Champion Steel Machinists' Forge is precisely like No. 406, the only difference being the half-hood, which makes this a Forge for inside work. Machinists, Plumbers, Miners, Marble Workers, Millers, Railroad Repair Shops, Locksmiths, Planters and Manufacturers in general find this a very convenient and economical Forge.



Code Engurria — Each

No. 406—Champion Steel Boilermakers' Forge, with Shield, Hearth 30x30 In., Height 30 In., Fan 10 In., . . . $55.00

Weight 160 lbs. Each.

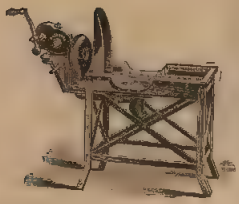
Code Engweg

No. 406T—With Water Tank, otherwise as No. 406, . . . . . 60.00

Weight 185 lbs. Each.

No. 406 Champion Steel Boilermakers' Forge, has a 30-inch Square Hearth and Fan 10 inches in diameter. The light-running and noiseless machinery for operating the Blower for producing the blast is a 3-piece spiral movement. The powerful blast it produces, with the lightness in operation, can only be appreciated when seen at a fire; there being no belts or friction, with all machinery closed in an oil-tight casing and every Journal being fitted up with adjustable Ball Bearings. No mechanic can appreciate the ease of operation and strength of blast unless having the pleasure of using the Forge, which is intended for all kinds of medium work, such as Boiler Shops, Contractors, Miners, Tank Builders, Railroads, steam or elevated or a regular all-purpose Forge. The increased size of both Fan and Hearth makes it an ample Forge for all ordinary blacksmithing, it having blast sufficient for putting a welding heat on 4-inch iron in 10 minutes with great ease.

# Portable Forges.



Code Enhearten — Each

**No. 404—Champion Steel Rivet Forge, with Shield, Hearth 24x24 In., Height 30 In., Fan 9 In., . . . $45.00**
**Weight 110 lbs. Each.**

No. 404 Forge is 24 inches square. For many kinds of work a 24-inch square Forge may be more preferable. The hearth being larger, naturally there is more surface for fire, coal, tools, &c. The machinery and blower being large enough to blast to cover the entire hearth with a hot fire if so desired. It is a very light, stiff and practical Forge for Government use, Race Horse Stables, Elevated and Steam Railroads Bridge and Tank Builders, Boiler Work of any kind. The blower and all machinery is taken off for transportation, making it compact and easy to handle.

Code Enhedged — Each

**No. 405—Champion Steel Toolmakers' Forge, with Half Hood, Hearth 24x24 In., Height 30 In., Fan 9 In., . . . $49.00**
**Weight 120 lbs. Each.**

No. 405 Champion Steel Toolmakers' Forge is precisely like No. 404, the only difference being the half hood on this Forge which makes this a forge for inside work. The machinery for operating the blower for producing the blast, in connection with the general construction, is precisely the same as No. 404. It is especially adapted for Toolmakers, Jewelers Bicycle Repairers, Tempering Tools, Tank Builders, Miners, Prospectors, making Repairs on Boilers, Steam and Elevated Railroads, or any inside or outside work desiring a Forge of this size with a Half Hood.

Code Enheuder

**No. 401—Champion Steel Rivet Forge, with Shield, Hearth 18 In. Diam., Height 30 In., Fan 9 In., . . . . $35.00**
**Weight 90 lbs. Each.**

No. 401 Champion Steel Rivet Forge has now been on the Market eight (8) years and is used by the great majority of Railroads, Bridge Builders, Boiler and Structural Iron Workers of the World. This forge is constructed from structural steel, making it strong and durable. High-Speed Spiral Gearing; it runs Noiseless, it is supplied with the highest grade Adjustable Ball Bearings; it can be taken apart for transportation and again set up in several minutes; it will produce blasts to weld 3½ to 4-inch iron in ten minutes The crank turns either way to produce the blast.

Code Enhielo — Each

**No. 75—Champion "Midway," Spiral Geared Rivet Forge, with Cast Iron Hearth, 22 In. Diam., Height 33 In., Fan 10 In., . . . . $30.00**
**Weight 125 lbs. Each.**

No. 75 Champion "Midway" Spiral-Geared Rivet Forge, has cast iron hearth, and is supplied with the "Midway" or Cross Spiral Gearing; It is a good, strong and durable Forge, and will give the best of satisfaction, where a forge less expensive is wanted it is suitable for Jewelers, Bicycle Repairers, Tempering Tools, Tank Builders, Miners, Prospectors, Boilermakers, Elevated Railroad Contractors, etc.

# Portable Forges.

Code Enhuche Each

**No. 82**—Champion Imperial Boilermakers' Forge, with Shield, Hearth 23x35 In., Height 30 In., Fan 12½ In., . . $36.00
Weight 120 lbs. Each.

With large size hearth and fan. This Forge is especially adapted for Boilermakers, Iron Bridge and Ship Builders, Railroad Contractors, Miners, Tank Builders, etc.

Code Enhuller Each

**No. 85**—Champion Imperial Lever Rivet Forge, with Shield, Hearth 22 In. Diam., Fan 9½ In., . . . $24.00
Weight 80 lbs. Each.

It is a strong and light Forge for all kinds of light portable work; also is a very desirable Forge for inside use, such as Jewelers, Bicycle Repairer, heating and tempering tools in connection with the use of Tank Builders, Miners and Prospectors, making repairs on Boilers, Bridges, by Elevated Railroad Builders, Farmers, etc. It is easily carried about the country, being light, strong and compact.

Code Enhunser Each

**No. 153** -Champion Agricultural, with Half Hood, Hearth 18 In. Diam., Fan 8 In., $16.00
Weight 70 lbs. Each.

No. 150, with Shield. No. 151, with Half Hood.

Code Enhydro Each

**No. 150**—Agricultural, with Shield, Hearth 18 In. Diam., Fan 8 In., . . $14.00
Weight 70 lbs. Each.

Code Enhygros

**No. 151** -Agricultural, with Hood, Hearth 18 In. Diam., Fan 8 In., . . 16.00
Weight 70 lbs. Each.

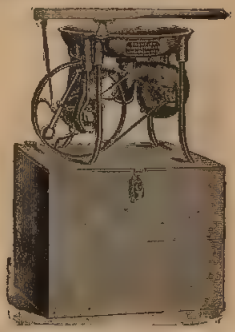
Especially adapted for Farmers who only have use for a Forge occasionally, and then only for light work. The hearth is 18 inches in diameter and the fan 8 inches in diameter. They are substantial and well built light Forges, only intended where light odd jobs are to be done. The capacity of this size Forge, driven by lever, is by no means a profitable Forge for anyone who expects a day's work from a workman.

# Portable Forges.

Code Enicure — Each

**No. 21**—Champion, Bench Forge, With Shield, Hearth 14x17 In., Fan 7 In., $16.00
Weight 45 lbs. Each.

The Champion Bench Crank Forges are especially intended for light work, being very compact and easily moved, having short legs, so when used should be set on a box or bench. Will produce a welding heat on 1-inch iron in ten minutes. It is a very convenient Forge for prospectors.

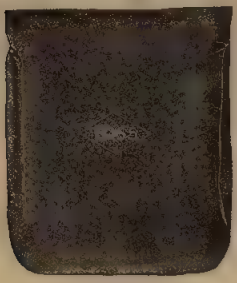


Code Enigme — Each

**No. 8**—Champion, Prospectors, Hearth 22 In. Diam., Fan 10 In., Without Case, $23.00
Weight 55 lbs. Each.

No. 8 Champion Standard Miners' and Prospectors' Lever Forge. Size of Hearth is 22 inches. Diameter of the Fan, 10 inches. The capacity of the Forge is such as to give the Miner and Prospector entire satisfaction. It is made with short legs.

# Blacksmiths' Aprons.



Code Enivrons — Per Dozen

**No. X**—30x36 In. Sheep Skin, Oak Tanned, With Brass Eyelets and Leather Tie Strings, . . . . . $31.50

Code Enixo

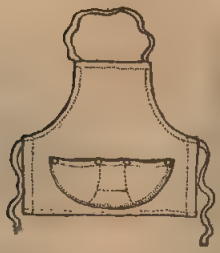
**No. A**—26x33 In. Sheep Skin, Oak Tanned, With Brass Eyelets and Leather Tie Strings, . . . . . 25.50

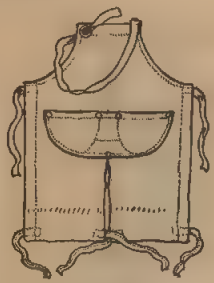
# Lumbermen's Aprons.

Code Enlall — Per Dozen

**No. 100**—24x36 In. Sheep Skin, Oak Tanned, With Brass Eyelets, . . . $31.50

# Carpenters' Aprons.

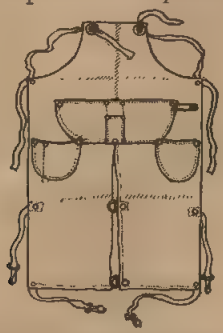




SCHWABACHER HARDWARE CO.

| | | Per Dozen |
|---|---|---|
| Code Enjoudo No. 1 | 8 Oz. White Duck, Length 24 In., Solid Neck Strap, 2 Nail Pockets, 1 Rule Pocket, Weight 6 lbs. Per Dozen. | $3.00 |
| Code Enjour No. 2 | 10 Oz. White Duck, Length 24 In., Solid Neck Strap, 2 Nail Pockets, 1 Rule Pocket, Weight 6 lbs. Per Dozen. | 4.00 |
| Code Enjoined No. 11 | 8 Oz. Brown Duck, Length 24 In., Solid Neck Strap, 2 Nail Pockets, 1 Rule Pocket, Weight 5 lbs. Per Dozen. | 4.00 |
| Code Enjoists No. 12 | 10 Oz. Brown Duck, Length 24 In., Solid Neck Strap, 2 Nail Pockets, 1 Rule Pocket, Weight 5¼ lbs. Per Dozen. | 5.00 |
| Code Enjoleur No. 4 | 10 Oz. White Duck, Length 34 In., Solid Neck Strap, 3 Pockets and Leg Straps, Weight 9 lbs. Per Dozen. | 6.50 |
| Code Enjoiens No. 14 | 10 Oz. Brown Duck, Length 34 In., Solid Neck Strap, 3 Pockets and Leg Straps, Weight 8 lbs. Per Dozen. | 7.50 |

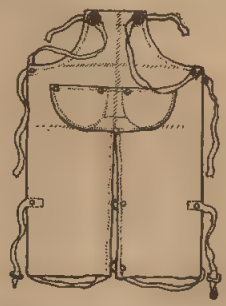
## Carpenters' Aprons.



Code Enjungar — Per Dozen

No. 15 10 Oz. Brown Duck, Length 42 In., Double Neck Strap, 7 Pockets, with Leg Straps, Weight 12 lbs. Per Dozen. $15.00

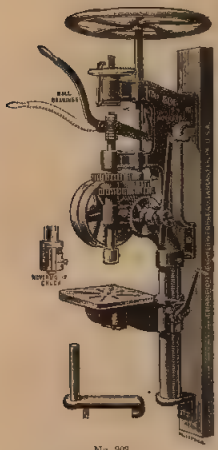
## Teamsters' Aprons.



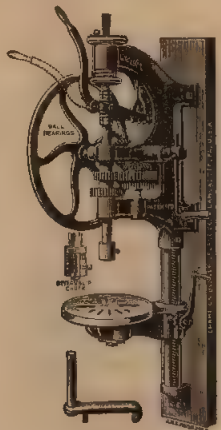
Code Enklauw — Per Dozen

No. 22 10 Oz. Brown Duck, Length 42 In., Double Neck Strap, 3 Pockets, with Leg Straps, Weight 12 lbs. Per Dozen. $12.00

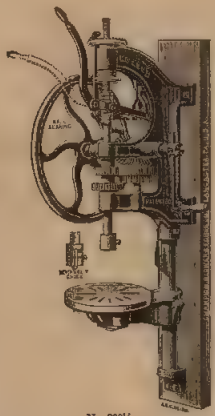
# Upright Drills.



No. 203.



No. 201.



No. 200½.



Code Enlisage — Each

**No. 203**—New Champion, Automatic Self Feed and Lever Feed, with Cut Gears, Ball Bearings, Drills to Center of 21 In. Circle, for Hand Power, Weight 325 lbs. Each, . . . . . $55.00

Code Enlico

**No. 203P** New Champion, Complete with Tight and Loose Pulleys for Power and Hand Combined, (otherwise as No. 203 New Champion,) Weight 360 lbs. Each, . . . . . 60.00

The Table of this Drill is raised and lowered by the use of a rack, which is quick in action, and never sticks or gets out of order. The Drill Table and Rack can be turned clear around out of the way. The Drill is furnished with a Wheel Hanger for drilling tire, which prevents the scraping of painted wheels. This Drill has two speeds, which are changed from single to double gear for heavy or light work, in an instant. The workmanship on this Drill in its entire construction is our very best. It drills to center of a 21-inch circle. The spindle is bored to take in 41-64-inch straight shank drill bits. The pulleys for power are 10x3½ inches. Speed for ordinary work, 180 revolutions per minute. Feed screw has an up and down run of 5½ inches. Will bore holes from 0 to 1½ inches.

Code Enligner — Each

**No. 201** New Champion, Combination Automatic Self Feed and Lever Feed, Double Back Cut Gear, Ball Bearings, Drills to Center of 21 In. Circle, Weight 325 lbs. Each. . $45.00

Code Enlnk

**No. 201P**—New Champion, Complete with Tight and Loose Pulleys for Power and Hand Combined, (otherwise as No. 201 New Champion,) . . . Weight 350 lbs. Each. 50.00

The Automatic Self-Feed and Lever-Feed are entirely independent of each other. The changing from one feed to the other requires but a small fraction of a second. The Lever, as illustration will show, is adjustable, enabling the operator to change the leverage to suit the work being done. The Lever-Feed is very profitable for drilling small holes, countersinking and reaming, and makes the Drill a first-class wood-boring machine. The workmanship on this Drill in its entire construction is the very best, with cut gears and ball bearings. Drills to the center of a 21-inch circle. Spindle has an up and down run of 5½ inches. Has two speeds, which are changed from one to the other by changing the gears. Has spindle 1¼ inches in diameter. Spindle bored to take in ¼-inch straight shank drill bits. Drills holes from 0 to 1½ inches.

Code Enliven — Each

**No. 200½**—Champion, Combination Automatic Lever Feed and Automatic Self Feed, Double Back Geared, Ball Bearings, Drills to Center of 18 In. Circle, Weight 225 lbs. Each. $35.00

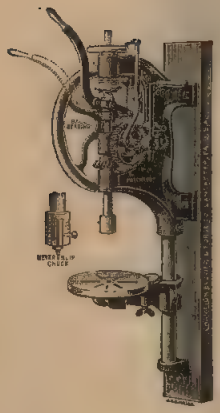
Code Enlodado

**No. 200½P** Champion, Complete with Tight and Loose Pulleys for Power and Hand Combined, (otherwise same as No. 200½ Champion,) . . . Weight 250 lbs. Each. 40.00

The Lever of this Drill, as illustration will show, is adjustable to meet the demands of the operator in different leverages for different work. The Lever motion will save, in many instances, more than one-half of the time in drilling small holes, reaming and countersinking and also makes the Drill a perfect wood boring machine. It drills to the center of an 18-inch circle. Spindle has an up-and-down run of 4 inches. Has two speeds, which are changed by changing the gears. Spindle, 1¼ inches in diameter, bored to take in ¼-inch straight shank bits. Drills holes from 0 to 1¼ inches.

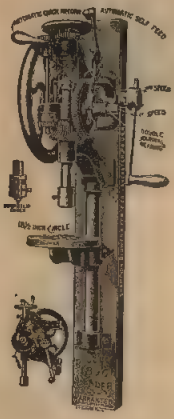
# Upright Drills.





No. 200.

No. 4.



No. 96.

Code Enloso — Each

**No. 200 Champion, Combination Automatic Self Feed and Lever Feed, Ball Bearings, Drills to Center of a 16 In. Circle, . . . . . $30.00**

**Weight 160 lbs. Each.**

This drill has Ball Bearings and is a well-built tool. Drills to the center of a 16-inch circle. Spindle has an up-and-down run of 4 inches. It has two speeds, and has the third back gear in order to give the crank on the second speed the same crank direction in turning as the first speed. Has spindle 1¼ inches in diameter, and is bored to take in ½-inch straight shank drill bits. Will drill holes up to 1¼ inches.

Code Enmangar — Each

**No. 4—Champion Improved, 18 In. Swing, Three-Geared, Ball Bearing, Drills to Center of 18 In. Circle, . . . . $27.50**

**Weight 200 lbs. Each.**

The Champion No. 4 New Improved 18-Inch Swing, Three-Geared, Ball-Bearing Self-Feed Blacksmith Post Drill, is a very well-made and practical tool, designed in every respect for large or heavy work. The bearings are all ground and polished out of the solid metal and are in every respect first-class. The table is slotted and planed off on its top side. The Ball Bearing will save in power when drilling from 20 to 50 per cent.; the larger the hole the more power saved. It will drill to the center of an 18 inch circle. Diameter of the Spindle, 1¾ inches. It has an up-and-down run of 5 inches. Spindle bored to take in ½-inch straight shank drills. Drills 1-64 to 1½-inch holes.

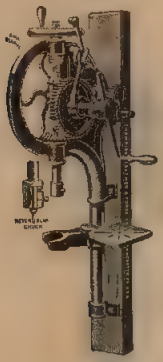
Code Enmews — Each

**No. 96—Champion, Quick Return, Self Feed, Drills to Center of 15½ In. Circle, . $18.75**

**Weight 135 lbs. Each.**

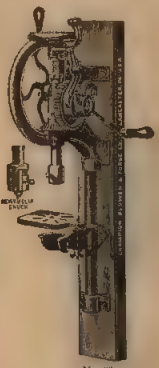
No. 96 Champion "Patented" Quick Return Blacksmith Post Drill is a well-built tool in every respect. It is back-geared, with improved three-gear principle. The crank has a forward motion on both the 1st and 2d speed, the 2d gear being part of the handle hub and only in use when on the 2d speed; therefore saving the continuous labor of pulling along an intermediate or third gear while working the first speed. It drills to the center of a 15½-inch circle. All gears are protected with double journal bearings. All bearings are ground to a working fit out of the solid metal. Drills up to 1¼-inch holes. Has spindle 1¼ inches in diameter. Spindle is bored to take in ½-inch straight shank drills.

# Upright Drills.



No. 1250.

No. 101.



No. 90.

Code Enmoves — Each

**No. 1250** Champion, Self Feed, Ball Bearing, Drills to Center of 16 In. Circle, . . . $16.50

Weight 130 lbs. Each.

It drills to the center of a 16-inch circle, making it a very useful and valuable drill, and giving it a greater range of work than any other drill sold at this price. The Ball Bearings are first-class, the cup and cone are both made from die steel and will save from 20 to 30 per cent. in power; has full Automatic Self-Feed and lathe-turned square-slotted table; has spindle 1¼-inches in diameter; has an up-and-down run of 3½ inches. Spindle bored to take in ½-inch straight shank drills. Will drill holes up to 1¼ inches. It has double-journal bearings all through, and all bearings are ground out of the solid metal to a working fit.

Code Enmuring — Each

**No. 90** —Champion, Self Feed, Drills to Center of 14½ In. Circle, . . . $12.00

Weight 100 lbs. Each.

Has full back gear with one speed. Drills to the center of a 14½-inch circle. The bearings are all ground from the solid metal, and is built in the same perfect mechanical manner as all our better grades. Will bore holes up to 1 inch. Has spindle 1¼-inch in diameter. Spindle has an up-and-down run of 8 inches. It is bored to take in ½-inch straight shank drills.

Code Ennatar — Each

**No. 101**—Champion, Self Feed, Drills to Center of 12 In. Circle, . . . $10.00

Weight 80 lbs. Each.

It has back gears and is a nicely made little Drill with slotted lathe-turned table. It will drill to the center of a 12-inch circle. It has one speed for the crank. The spindle is ¾-inch in diameter. It drills holes up to ⅝-inch, and has an up-and-down run of 3 inches. The spindle is bored for ½-inch straight shank drills.

# Blacksmiths' Horizontal Drills.

Nos. 5 and 6.

Code Ennis — Each

**No. 5**—26 In. Long, Japanned, for Round Shank Drills, . . . . . $5.00

Cast Iron Frame, Crank and Fly Wheel, Steel Screw Feed and Chuck, Base 28 In. Long, Opens 12 In.

Weight 35 lbs. Each.

# Blacksmiths' Anvils.

**Colonial.**
(Code Enenciez)
Wrought Iron Body, Faced With Best Crucible Steel.

| | Per Pound |
|---|---|
| 80 to 425 lbs., Base, | $..... |
| | Advance Per Pound |
| 70 to 79 lbs., | $0.00½ |
| 60 to 69 lbs., | .01 |
| 50 to 59 lbs., | .02 |
| 40 to 49 lbs., | .03 |
| 30 to 39 lbs., | .05 |
| 20 to 29 lbs., | .08 |
| 10 to 19 lbs., | .15 |

Code Enophilo — Per Pound
Horse Shoers', With Clip Horn, $.....
Carried From 125 to 150 lbs.

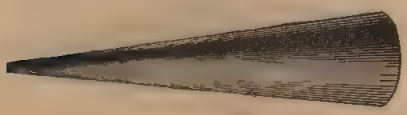
**Peter Wright's**
(Code Enopia)
Solid Wrought Iron Body, Faced With Crucible Steel.

| | Per Pound |
|---|---|
| 84 to 350 lbs., Base, | $..... |
| | Advance Per Pound |
| 350 to 600 lbs., | $0.01 |
| 70 to 84 lbs., | .01 |
| 60 to 69 lbs., | .02 |
| 50 to 59 lbs., | .03 |
| Under 50 lbs., | .04 |

**Vulcan.**
Cast Iron, Steel Face.

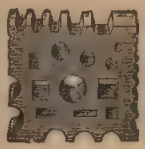
| Weight Each, lbs., | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |
|---|---|---|---|---|---|---|---|---|---|---|
| Code. | Enunyala | Enunyoun | Enodation | Enodster | Enoding | Enodios | Enojaba | Enojadas | Enojamos | Enojaron |
| Each, | $2.75 | 4.00 | 4.50 | 5.25 | 6.00 | 6.50 | 7.25 | 8.00 | 9.00 | 10.00 |

# Blacksmiths' Mandrels.



Code Enotomy — Per Pound
No. 2—Cast Iron, 12 In. Base, 4 Ft. High, $0.10
Weight 115 lbs. Each.
Code Enouage
No. 3—Cast Iron, 14 In. Base, 4½ Ft. High, .10
Weight 140 lbs. Each.

# Swage Blocks.



Code Enquiers — Per Pound
No. 1—Cast Iron, 15x15x4 In., $0.10
Weight 160 lbs. Each.

SCHWABACHER HARDWARE CO.

# Vises.

**Solid Box, Blacksmiths'.**

| Nos. | Each | Code | Width Jaws, In. | Weight Each, Lbs. |
|---|---|---|---|---|
| 35 | $10 00 | Enramer | 3¾ | 35 |
| 40 | 10.50 | Enrancer | 4 | 40 |
| 45 | 11.00 | Enrancio | 4¼ | 45 |
| 50 | 11 50 | Enrange | 4½ | 50 |
| 55 | 12.00 | Ensnked | 4¾ | 55 |
| 60 | 13.00 | Enraps | 5 | 60 |
| 65 | 14.00 | Enrastro | 5 | 65 |
| 70 | 15.00 | Enravish | 5¼ | 70 |
| 75 | 16 00 | Enredaba | 5¼ | 75 |
| 80 | 17.50 | Enredeus | 5½ | 80 |
| 85 | 18 50 | Enre,ada | 5½ | 85 |
| 90 | 20.00 | Enremant | 5¾ | 90 |
| 95 | 21 00 | Enrestar | 5¾ | 95 |
| 100 | 22.00 | Enrheum | 6 | 100 |
| 110 | 24.00 | Enrichir | 6 | 110 |
| 120 | 26.00 | Enripen | 6½ | 120 |
| 130 | 29.00 | Enripo | 6½ | 130 |
| 140 | 33.00 | Enrismo | 7 | 140 |

**Boxes and Screws.**

| Nos. | For Vises Nos. | Each | Code | Diam. Screw, In. | Diam. Box, In. | Weight Each, Lbs. |
|---|---|---|---|---|---|---|
| 1 | 25 to 40 | $5.25 | Enrollels | 1 | 1½ | 8 |
| 1½ | 45 " 55 | 6 00 | Enrolling | 1⅛ | 1⅝ | 10 |
| 2 | 60 " 75 | 6.00 | Enrort | 1¼ | 1¾ | 12 |
| 3 | 80 " 95 | 6.75 | Enrooted | 1⅜ | 1⅞ | 16 |
| 4 | 100 " 150 | 9 75 | Enroque | 1¾ | 2⅜ | 22 |

**Chenney's Combination.**

Hardened Face and Jaws, Adjustable.

| Nos., | 10 | 20 | 30 | 40 |
|---|---|---|---|---|
| Code, | Ensamblo | Ensanais | Ensancha | Ensanhar |
| Face of Anvil, In., | 4½x2 | 6½x3 | 8x3½ | 8½x4 |
| Width of Jaws, In., | 2¼ | 3½ | 4 | 4½ |
| Opens, In., | 3 | 4 | 5 | 6 |
| Weight Each, lbs., | 12 | 30 | 41 | 56 |
| Each, | $7.00 | 9.00 | 11.00 | 13.00 |

Vise and Anvil.

Pipe Vise.

Drill

**Hanson's Combination.**

Code Ensatelle — Each

No. 100—Face of Anvil 3x6 In., Width of Jaws 3¾ In., Opens 4½ In., . . $10.00

Weight 55 lbs. Each Complete.

The Handiest Tool Made, Combining 5 Tools in one: Vise and Anvil, Anvil, Saw Clamp, Pipe Vise and Drill.

# Colonial Pocket Knives.

**Fully Warranted.**

Per Dozen

No. 1220—One Blade, 3¼ In. Rosewood Cover, Steel Bolster, Steel Lined, . . . . . $2.80

Per Dozen

No. 1210—One Blade, 3⅜ In. Rosewood Cover, Steel Bolster, Steel Lined, . . . . . $3.20

Per Dozen

No. 1240—One Blade, 3¾ In. Rosewood Cover, Steel Bolster, Steel Lined, . . . . . $5.00

Per Dozen

No. 2210 Two Blades, 3⅝ In. Rosewood Cover, Steel Bolster, Steel Lined, . . . . . $4.00
No. 2310 Two Blades, 3⅜ In. Ebony Cover, Steel Bolster, Steel Lined, . . . . 4.00

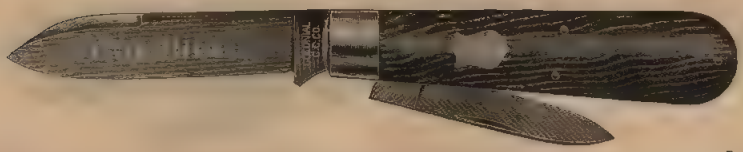
Per Dozen

No. 2510—Two Blades, 3⅝ In. Stag Cover, Steel Bolster, Steel Lined, . . . . . $4.50

All Packed Half Dozen in a Box.

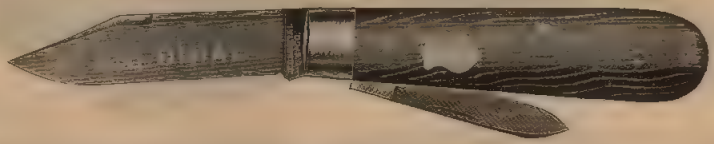
# Colonial Pocket Knives.

**Fully Warranted.**

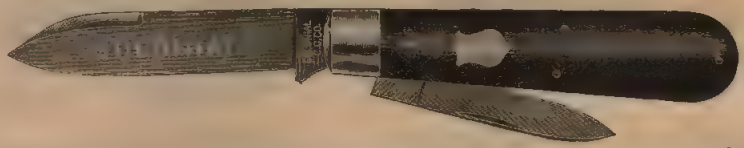


No. 2212—Two Blades, 3½ In. Rosewood Cover, Polished Steel Bolster, Steel Lined, . . . Per Dozen $5.50

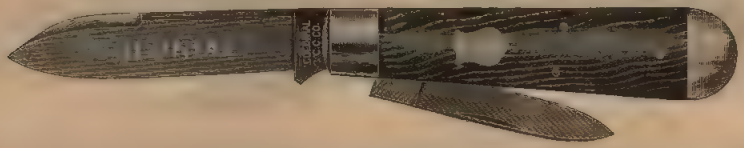
No. 2512—Two Blades, 3½ In. Stag Cover, Polished Steel Bolster, Steel Lined, Per Dozen $7.00



No. 2231 Two Blades, 3⅜ In. Rosewood Cover, Polished Steel Bolster, Brass Lined, . . . Per Dozen $7.00



No. 2322—Two Blades, 3½ In. Ebony Cover, Polished Steel Bolster, Brass Lined, . . . Per Dozen $7.50



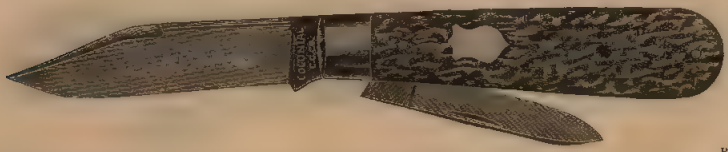
No. 2213—Two Blades, 3½ In. Rosewood Cover, Polished Steel Bolster and Cap, Steel Lined, Per Dozen $7.50

Half Dozen in a Box.

SCHWABACHER HARDWARE CO.

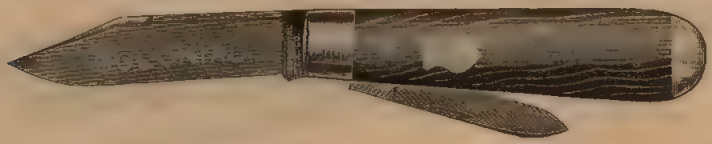
# Colonial Pocket Knives.

**Fully Warranted.**



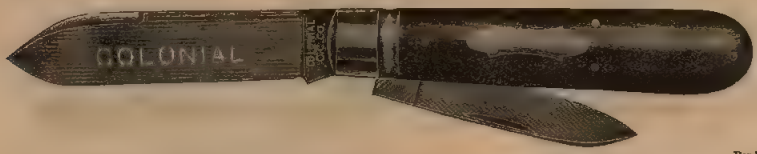
Per Dozen

**No. 2523**—Two Blades, 3⅜ In. Stag Cover, Polished Steel Bolster, Brass Lined, . . . . $8.00



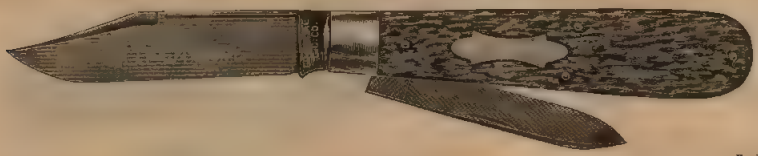
Per Dozen

**No. 2233**—Two Blades, 3⅜ In. Cocobolo Cover, German Silver Bolster and Cap, Brass Lined, . $8.00



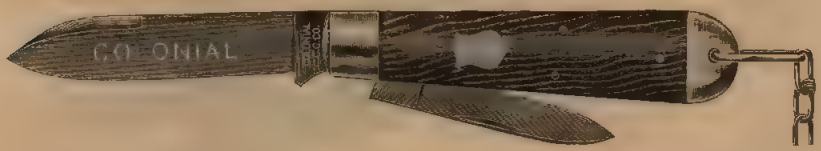

Per Dozen

**No. 2324**—Two Blades, 3⅝ In. Ebony Cover, Polished Steel Bolster, Brass Lined, . . $8.50



Per Dozen

**No. 2524**—Two Blades, 3⅝ In. Stag Cover, Polished Steel Bolster, Brass Lined, . . . . $9.00




Per Dozen

**No. 2214**—Two Blades, 3⅝ Rosewood Cover, Polished Steel Bolster and Cap, Iron Lined, with Chain, $8.00
**No. 2513** Two Blades, 3⅝ Stag Cover, Polished Steel Bolster and Cap, Iron Lined, with Chain, 9.00

All Packed Half Dozen in a Box.

# Colonial Pocket Knives.

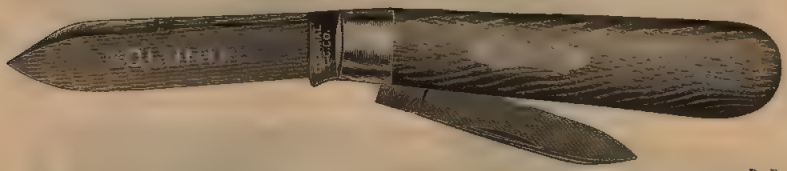
**Fully Warranted.**

Per Dozen

**No. 2325** Two Blades, 3¾ In. Ebony Cover, Polished Steel Bolster, Brass Lined, . . . . $8.00

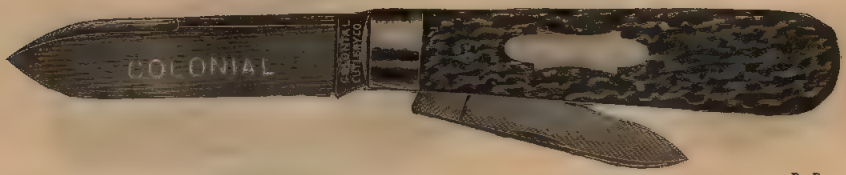
Per Dozen

**No. 2224**—Two Blades, 3¾ In. Cocobolo Cover, German Silver Bolster and Cap, Brass Lined, . $9.00



Per Dozen

**No. 2223**—Two Blades, 3¾ In. Rosewood Cover, Polished Steel Bolster, Brass Lined, . . . $8.00




Per Dozen

**No. 2525** Two Blades, 4 In. Stag Cover, German Silver Bolster, Brass Lined, . . . $12.00
**No. 2225** Two Blades, 4 In. Rosewood Cover, German Silver Bolster, Brass Lined, . . . 11.00
**No. 2326**—Two Blades, 4 In. Ebony Cover, German Silver Bolster, Brass Lined. . . . 12.00

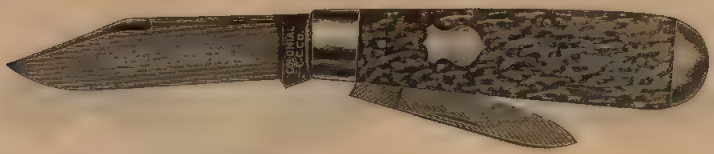
All Packed Half Dozen in a Box.

# Colonial Pocket Knives.

**Fully Warranted.**

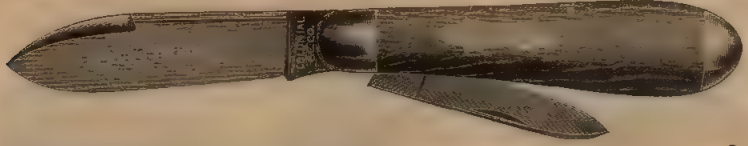
Per Dozen

**No 25216**—Two Blades, 3½ In. Stag Cover, Polished Steel Bolster, Brass Lined, . . . . . $8.50




Per Dozen

**No. 2531** Two Blades, 3⅛ In. Stag Cover, German Silver Bolster and Cap, Brass Lined, . . $8.50

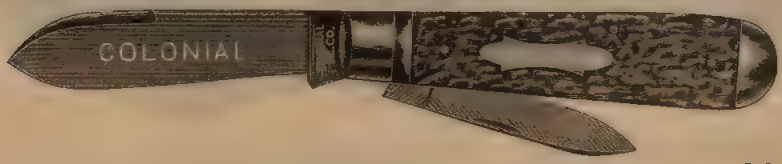



Per Dozen

**No. 2228**—Two Blades, 3⅝ In. Cocobolo Cover, Polished Steel Bolster and Cap, Brass Lined, . $8.50

Per Dozen

**No. 2520**—Two Blades, 3½ In. Stag Cover, Polished Steel Bolster and Cap, Brass Lined, . . $9.00



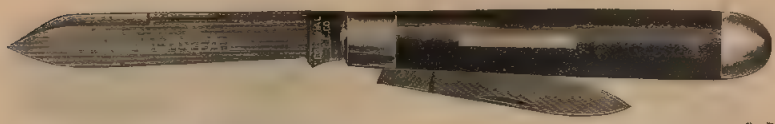

Per Dozen

**No. 2528**—Two Blades, 3¼ In. Stag Cover, Polished Steel Bolster and Cap, Brass Lined, . . $12.00

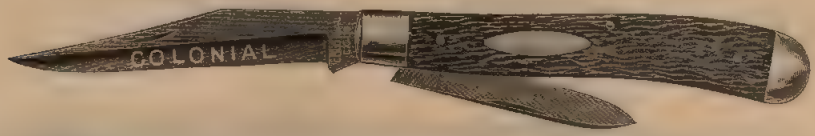
All Packed Half Dozen in a Box.

# Colonial Pocket Knives.

**Fully Warranted.**



| | | Per Dozen |
|---|---|---|
| No. 23212 | —Two Blades, 3⅝ In. Ebony Cover, German Silver Bolster and Cap, Brass Lined, | $10.00 |
| No. 25211 | Two Blades, 3⅝ In. Stag Cover, German Silver Bolster and Cap, Brass Lined, | 10.50 |




| | | Per Dozen |
|---|---|---|
| No. 25210 | Two Blades, 3¾ In. Stag Cover, German Silver Bolster and Cap, Brass Lined, | $12.00 |
| No. 23211 | —Two Blades, 3¾ In. Ebony Cover, German Silver Bolster and Cap, Brass Lined, | 11.50 |

| | | Per Dozen |
|---|---|---|
| No. 2226 | —Two Blades, 3⅜ In. Cocobolo Cover, German Silver Bolster and Cap, Brass Lined, | $9.00 |
| No. 2329 | Two Blades, 3⅜ In. Ebony Cover, German Silver Bolster and Cap, Brass Lined, | 9.00 |
| No. 2526 | Two Blades, 3¾ In. Stag Cover, German Silver Bolster and Cap, Brass Lined, | 9.50 |

| | | Per Dozen |
|---|---|---|
| No. 2227 | —Two Blades, 3⅛ In. Cocobolo Cover, German Silver Bolster and Cap, Brass Lined, | $10.00 |
| No. 23210 | —Two Blades, 3⅝ In. Ebony Cover, German Silver Bolster and Cap, Brass Lined, | 11.00 |
| No. 2420 | Two Blades, 3⅜ In. White Bone Cover, German Silver Bolster and Cap, Brass Lined, | 13.50 |

| | | Per Dozen |
|---|---|---|
| No. 2527 | —Two Blades, 3¾ In. Stag Cover, German Silver Bolster and Cap. Brass Lined. | $12.00 |

All Packed Half Dozen in a Box.

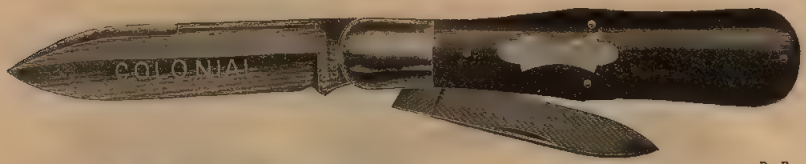
SCHWABACHER HARDWARE CO.

# Colonial Pocket Knives.

**Fully Warranted.**

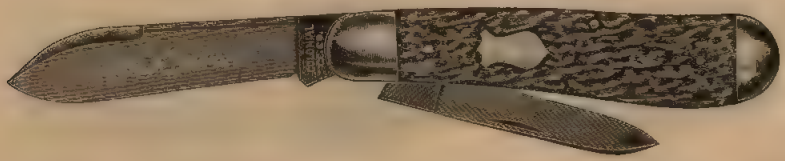
Per Dozen

No. 2327—Two Blades, 3¾ In. Ebony Cover, German Silver Bolster, Brass Lined, . . $11.00
No. 2227 Two Blades, 3¾ In. Cocobolo Cover, German Silver Bolster, Brass Lined, . . 10.00
No. 2427 Two Blades, 3¾ In. White Bone Cover, German Silver Bolster, Brass Lined, . 12.00




Per Dozen

No. 2328—Two Blades, 3¾ In. Ebony Cover, German Silver Bolster, Brass Lined, . . . $12.00



Per Dozen

No. 2529 Two Blades, 3¾ In. Stag Cover, German Silver Bolster and Cap, Brass Lined, . $13.00
No. 22219—Two Blades, 3¾ In. Cocobolo Cover, German Silver Bolster and Cap, Brass Lined, . 12.00

Per Dozen

No. 25217—Two Blades, 4¼ In. Stag Cover, German Silver Bolster and Cap, Brass Lined, . . $14.00

All Packed Half Dozen in a Box.

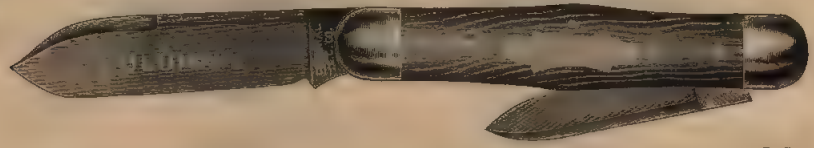
# Colonial Pocket Knives.

**Fully Warranted.**

**No. 2533**—Two Blades, 3¼ In. Stag Cover, German Silver Bolster and Cap, Brass Lined, . . Per Dozen $10.50

**No. 23213**—Two Blades, 3⅝ In. Ebony Cover, German Silver Bolster and Cap, Brass Lined, . . Per Dozen $13.50

**No. 25213**—Two Blades, 3⅝ In. Stag Cover, German Silver Bolster and Cap, Brass Lined, . . Per Dozen $13.50



**No. 22218**—Two Blades, 4 In. Cocobolo Cover, German Silver Bolster and Cap, Brass Lined, . Per Dozen $12.00

**No. 25214**—Two Blades, 3⅝ In. Stag Cover, German Silver Bolster and Cap, Brass Lined, . Per Dozen $12.00
**No. 22214** Two Blades, 3⅝ In. Cocobolo Cover, German Silver Bolster and Cap, Brass Lined, . 10.50

All Packed Half Dozen in a Box.

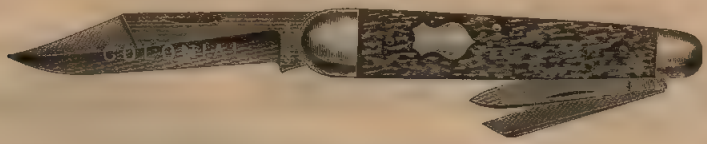
# Colonial Pocket Knives.

**Fully Warranted.**

| | | Per Dozen |
|---|---|---|
| No. 3522 | Three Blades, 3¾ In. Stag Cover, German Silver Bolsters, Brass Lined, | $14.50 |
| No. 3725 | Three Blades, 3¾ In. Pearl Cover, German Silver Bolsters, Brass Lined, | 26.00 |

| | | Per Dozen |
|---|---|---|
| No. 3322 | Three Blades, 3¾ In. Ebony Cover, German Silver Bolsters, Brass Lined, | $16.00 |

| | | Per Dozen |
|---|---|---|
| No. 37211 | —Three Blades, 3⅝ In. Pearl Cover, German Silver Bolsters, Brass Lined, | $29.00 |



| | | Per Dozen |
|---|---|---|
| No. 35215 | Three Blades, 3½ In. Stag Cover, German Silver Bolsters, Brass Lined, | $17.00 |
| No. 3323 | Three Blades, 3½ In. Ebony Cover, German Silver Bolsters, Brass Lined, | 16.00 |
| No. 37212 | Three Blades, 3½ In. Pearl Cover, German Silver Bolsters, Brass Lined, | 30.00 |

| | | Per Dozen |
|---|---|---|
| No. 3533 | —Three Blades, 3¾ In. Stag Cover, German Silver Bolsters, Brass Lined, | $27.00 |

All Packed Half Dozen in a Box.

# Colonial Pocket Knives.

**Fully Warranted.**

Per Dozen

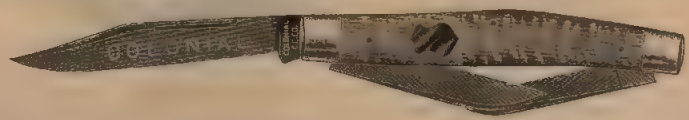
No. 3531—Three Blades, 3⅜ In. Stag Cover, German Silver Bolsters, Brass Lined, . . . $16.00

Per Dozen

No. 35213 Three Blades, 3⅜ In. Stag Cover, German Silver Bolsters, Brass Lined, . . $16.00
No. 3422 Three Blades, 3⅜ In. White Bone Cover, German Silver Bolsters, Brass Lined, 17.00

Per Dozen

No. 37215 Three Blades, 3⅜ In. Pearl Cover, German Silver Bolsters, Brass Lined, . . . $28.00



Per Dozen

No. 37213—Three Blades, 3¼ In. Pearl Cover, German Silver Bolsters, Brass Lined, . . . $30.00
No. 35216 Three Blades, 3¼ In. Stag Cover, German Silver Bolsters, Brass Lined, . . . 16.00

Per Dozen

No. 3724—Three Blades, 3½ In. Pearl Cover, German Silver Bolsters, Brass Lined, . . $35.00

All Packed Half Dozen in a Box.

SCHWABACHER HARDWARE CO.

# Colonial Pocket Knives.

**Fully Warranted.**

Per Dozen

**No. 35222**—Three Blades, 3¾ In. Stag Cover, German Silver Bolsters, Brass Lined, . . . $17.00

Per Dozen

**No. 3320**—Three Blades, 3⅝ In. Ebony Cover, German Silver Bolsters, Brass Lined, . . . $14.50

Per Dozen

**No. 3421** Three Blades, 3⅝ In. White Bone Cover, German Silver Bolsters, Brass Lined, . . $18.00
**No. 3521**—Three Blades, 3⅝ In. Stag Cover, German Silver Bolsters, Brass Lined, . . 15.00
**No. 3721**—Three Blades, 3⅝ In. Pearl Cover, German Silver Bolsters, Brass Lined, . . 29.00

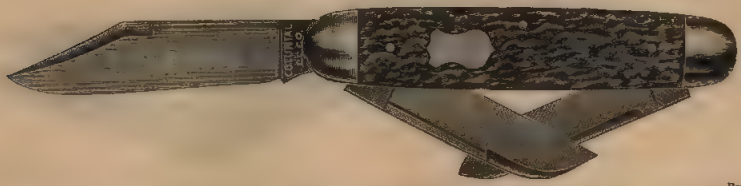
Per Dozen

**No. 35225**—Three Blades, 3⅝ In. Stag Cover, German Silver Bolsters, Brass Lined, . . . $17.00

All Packed Half Dozen in a Box.

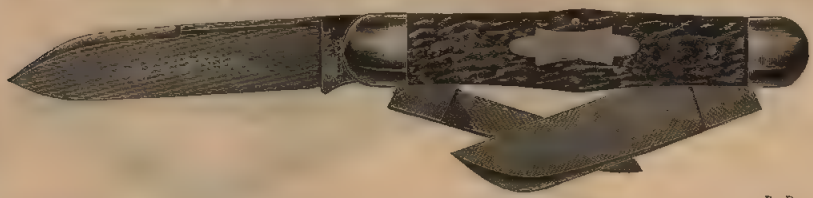
# Colonial Pocket Knives.

**Fully Warranted.**



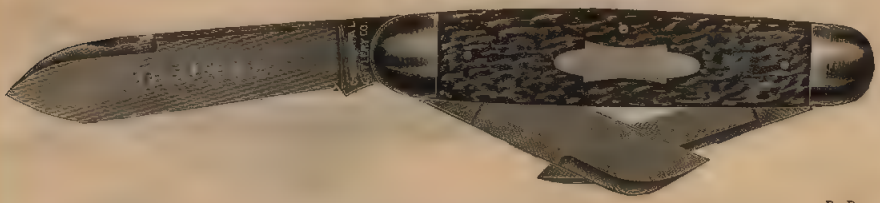

Per Dozen

**No. 3530**—Three Blades, 3¾ In. Stag Cover, German Silver Bolsters, Brass Lined, . . . $15.00



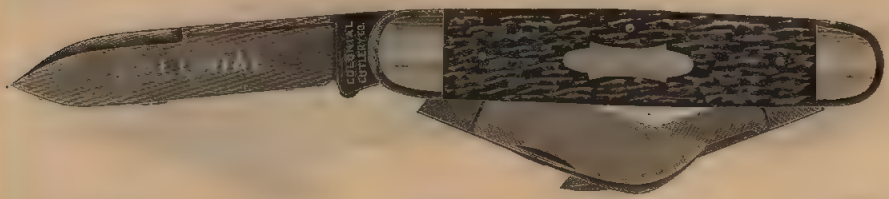
Per Dozen

**No. 35219** Three Blades, 4 In. Stag Cover, German Silver Bolsters, Brass Lined, . . $17.00
**No. 39219** Three Blades, 4 In. Gray Buffalo Cover, German Silver Bolsters, Brass Lined, . 17.00



Per Dozen

**No. 35226**—Three Blades, 4⅜ In. Stag Cover, German Silver Bolsters, Brass Lined, . . . $21.00



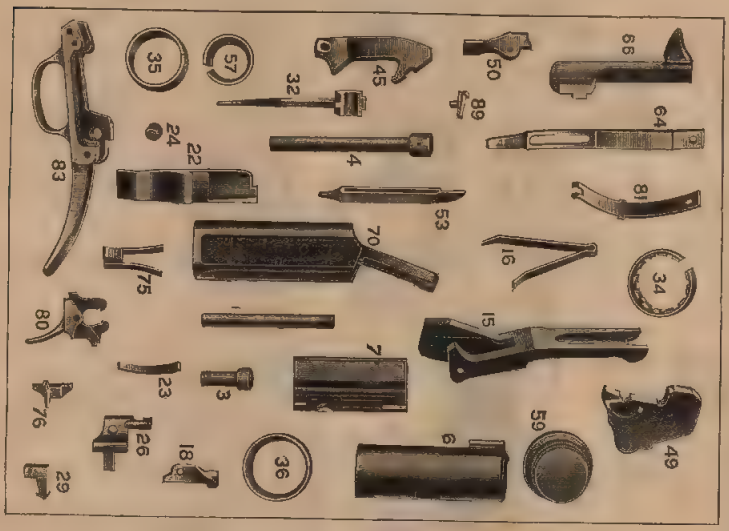

Per Dozen

**No. 35220**—Three Blades, 4¼ In. Stag Cover, German Siver Bolsters, Brass Lined, . . . $20.00

All Packed Half Dozen in a Box.

# Component Parts.

SCHWABACHER HARDWARE CO.




## Remington Auto Loading Shot Guns.

| | Each |
|---|---|
| 1 Action-Spring Tube | $ 0 50 |
| 2 Action Spring | 40 |
| 3 Action-Spring Follower | 35 |
| 4 Action-Spring Plug | 20 |
| 5 Barrel No. 1 | 16 00 |
| 6 Barrel Extension | 3 00 |
| 7 Breech-Bolt | 3 00 |
| 8 Butt Stock No. 1 | 3 50 |
| 9 Butt-Stock Nos. 2 and 3 | 6 00 |
| 10 Butt-Stock No. 4 | 8 00 |
| 11 Butt-Stock No. 5 | 18 00 |
| 12 Butt-Stock No. 6 | 25 00 |
| 13 Butt-Plate | 85 |
| 14 Butt-Plate Screws (2), each | 10 |
| 15 Carrier | 2 00 |
| 16 Carrier-Spring | 35 |
| 17 Carrier-Screws (2), each | 10 |
| 18 Carrier-Dog | 25 |
| 19 Carrier-Dog Spring | 15 |
| 20 Carrier-Dog Follower | 10 |
| 21 Carrier-Dog Pin | 10 |
| 22 Carrier-Latch | 75 |
| 23 Carrier-Latch Spring | 15 |
| 24 Carrier-Latch Button | 15 |
| 25 Carrier-Latch Screw | 10 |
| 26 Cartridge-Stop | 75 |
| 27 Cartridge Stop Spring | 15 |
| 28 Cartridge Stop Screw | 10 |
| 29 Extractor | 40 |
| 30 Extractor-Spring | 15 |
| 31 Extractor Pin | $ 0 10 |
| 32 Firing-Pin | 50 |
| 33 Firing-Pin Stop Pin | 10 |
| 34 Friction-Piece, bronze | 35 |
| 35 Friction-Spring | 25 |
| 36 Friction Ring | 25 |
| 37 Front Sight, complete | 75 |
| 38 Front Sight, base | 65 |
| 39 Fore-end, complete, No. 1 | 1 70 |
| 40 Fore-end, complete, Nos. 2 and 3 | 1 50 |
| 41 Fore-end, complete, No. 4 | 1 00 |
| 42 Fore-end, complete, No. 5 | 6 00 |
| 43 Fore-end, complete, No. 6 | 8 00 |
| 44 Front stock, coupled with magazine cap stock | 2 00 |
| 45 Hammer | 75 |
| 46 Hammer-Pin | 10 |
| 47 Hammer-Roll | 15 |
| 48 Locking-Screws, each | 10 |
| 49 Locking-Block | 1 50 |
| 50 Locking-Block Latch | 75 |
| 51 Locking-Block Latch-Spring | 15 |
| 52 Locking-Block Latch-Pin | 10 |
| 53 Link | 1 00 |
| 54 Link Pin | 10 |
| 55 Magazine | 1 00 |
| 56 Magazine-Spring | 50 |
| 57 Magazine-Spring Retainer | 25 |
| 58 Magazine-Follower | 50 |
| 59 Magazine-Cap, Nos. 1, 2 and 3 | 50 |
| 60 Magazine Cap, No. 4 | $ 1 00 |
| 61 Magazine-Cap, No. 5 | 1 75 |
| 62 Magazine-Cap, No. 6 | 2 50 |
| 63 Magazine-Cap Stop, complete | 50 |
| 64 Mainspring | 40 |
| 65 Mainspring Screw | 10 |
| 66 Operating-slide, Nos. 1, 2 and 3 | 1 50 |
| 67 Operating-slide, No. 4 | 1 75 |
| 68 Operating-slide, No. 5 | 2 00 |
| 69 Operating-slide, No. 6 | 2 25 |
| 70 Receiver, Nos. 1, 2 and 3 | 6 00 |
| 71 Receiver, No. 4 | 20 00 |
| 72 Receiver, No. 5 | 30 00 |
| 73 Receiver, No. 6 | 60 00 |
| 74 Recoil Spring | 1 00 |
| 75 Safety | 40 |
| 76 Safety-sear | 35 |
| 77 Safety-sear Follower | 15 |
| 78 Safety-sear Spring | 15 |
| 79 Tang Screw | 10 |
| 80 Trigger | 70 |
| 81 Trigger-Spring | 20 |
| 82 Trigger-Pin | 10 |
| 83 Trigger-plate, Nos. 1, 2 and 3 | 2 50 |
| 84 Trigger-plate, No. 4 | 3 50 |
| 85 Trigger-plate, No. 5 | 4 50 |
| 86 Trigger-plate, No. 6 | 7 50 |
| 87 Trigger plate front pin | 10 |
| 88 Trigger-plate rear screw | 10 |
| 89 Ejector | 20 |

# Component Parts.

## Model 1908 Remington Repeating Shot Guns.

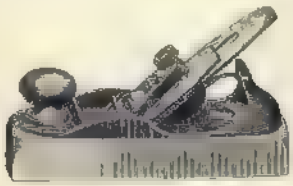
| | | Each |
|---|---|---|
| 1, 35, 36 | Action Bar, complete with fore end tube, bushing and rivets, Grade 1, 2 and 3 | $ 2 50 |
| | Grade 4 | 3 50 |
| | Grade 5 | 4 00 |
| | Grade 6 | 4 00 |
| 2 | Action Bar Lock | 50 |
| 3 | Action Bar Lock Button | 10 |
| 4 | Action Bar Lock Button Spring | 10 |
| 5 | Action Bar Lock Pin | 10 |
| 6 | Action Bar Lock Spring | 10 |
| 7 | Action Bar Stud | 10 |
| 8 | Action Bar Rivet | 10 |
| 9, 12, 43 | Barrel, complete with yoke and barrel lug, Grade 1, 2 and 3 | 15 00 |
| | Grade 4 | 20 00 |
| | Grade 5 | $25 00 |
| | Grade 6 | 30 00 |
| 10 | Barrel Adjusting Bushing | 50 |
| 11 | Barrel Adjusting Screw | 10 |
| 12 | Barrel Yoke, Grade 1, 2 and 3 | 1 25 |
| | Grade 4 | 2 00 |
| | Grade 5 | 3 50 |
| | Grade 6 | 5 00 |
| 13 | Barrel Yoke Stop Screw | 10 |
| 14 | Breech Block | 4 00 |
| 14½ | Breech Block assembled, complete | 7 00 |
| 15 | Butt Plate | 35 |
| 16 | Butt Plate Screws | 10 |
| 17 | Butt Stock, Grade 1 | 4 50 |
| | Grade 2 | 22 50 |
| | Grade 3 | 22 50 |
| | Grade 4 | $25 00 |
| | Grade 5 | 30 00 |
| | Grade 6 | 35 00 |
| 18 | Butt Stock Bolt | 20 |
| 19 | Butt Stock Bolt Washer | 10 |
| 20, 21 | Carrier and Spring | 2 50 |
| 23 | Carrier Stop | 25 |
| 24 | Cartridge Stop | 25 |
| 25 | Cocking Head | 1 00 |
| 25½ | Cocking Head complete with main spring, firing pin and bushing | 1 60 |
| 26 | Cocking Head Pin | 10 |
| 27 | Ejector Spring | 20 |
| 28 | Extractor | 40 |
| 29 | Extractor Pin | 10 |
| 30 | Extractor Spring | 20 |
| 31 | Firing Pin | 20 |
| 32 | Firing Pin Bushing | 15 |
| 33 | Firing Pin Bushing Pin | 10 |
| 34 | Fore-end, Grade 1 | 1 00 |
| | Grade 2 | 5 00 |
| | Grade 4 | 3 00 |
| | Grade 5 | 6 00 |
| | Grade 6 | 7 00 |
| | Grade 6 | 10 00 |
| 37 | Fore-end Nut | 30 |
| 38 | Guard, Grade 1, 2 and 3 | 2 50 |
| | Grade 4 | 1 00 |
| | Grade 5 | 6 50 |
| | Grade 6 | 10 00 |
| 39 | Main Spring | 25 |
| 40 | Magazine Lever | 60 |
| 41 | Magazine Lever Pin | 10 |
| 42 | Magazine Lever Spring | 10 |
| 43 | Barrel Lug | 1 00 |
| 44 | Magazine Lever Detent | 20 |
| 45 | Barrel Lug Screw | 10 |
| 46 | Magazine Plug Screw | 10 |
| 47, 48, 49 | Magazine Tube complete with bushing and two lugs | 2 00 |
| 50 | Magazine Plug | 40 |
| 51 | Magazine Follower | 10 |
| 52 | Magazine Spring | 20 |
| 53 | Receiver, Grade 1, 2 and 3 | 10 00 |
| | Grade 4 | 20 00 |
| | Grade 5 | 30 00 |
| | Grade 6 | 60 00 |
| 54 | Safety Slide Ball | 10 |
| 55 | Safety Slide | 25 |
| 55½ | Safety Slide complete with ball, plug and spring | 35 |
| 56 | Safety Slide Pin | 10 |
| 57 | Safety Slide Spring | 10 |
| 58 | Safety Slide Plug | 10 |
| 59 | Sear | 50 |
| 60 | Sear Pin | 10 |
| 61 | Sear Spring | 20 |
| 62 | Sear Spring Screw | 10 |
| 63 | Tang Screw | |
| 64 | Trigger | 1 00 |
| 65 | Trigger Pin | 10 |
| 66 | Trigger Spring | 10 |
| 68 | Tang Screw Check Screw | 10 |
| 71 | Breech Block Detent Pin | 10 |
| 72 | Magazine Lever Detent Retaining Pin | 10 |
| 73 | Magazine Lug Rivet | 10 |
| 74 | Guard Screw | 10 |
| 75 | Front Sight | 10 |
| 76 | Fore-end Rivet | 10 |

# Adjustable Wood Planes.

## Bailey's.

| | Each |
|---|---|
| No. 22—Smooth, 8 in Long, 1¾ in. Cutter, | $1 35 |
| No. 23—Smooth, 9 in. Long, 1¾ in. Cutter, | 1.35 |
| No. 24—Smooth, 8 in. Long, 2 in Cutter, | 1.35 |
| No. 25—Block, 9½ in. Long, 1⅝ in Cutter, | 1 35 |
| No. 35—Handled Smooth, 9 in. Long, 2 in. Cutter, | $1.70 |
| No. 36—Handled Smooth, 10 in Long, 2⅜ in. Cutter, | 1.85 |
| No. 37—Jenny Smooth, 13 in. Long, 2⅝ in. Cutter, | 2.00 |

| | Each |
|---|---|
| No. 26—Jack, 15 in. Long, 2 in. Cutter, | $1.50 |
| No. 27—Jack, 15 in. Long, 2¼ in. Cutter, | 1.70 |
| No. 27½—Jack, 15 in Long, 2¼ in. Cutter, | 1 70 |
| No. 28—Fore, 18 in. Long, 2⅜ in. Cutter, | 1 85 |
| No. 29—Fore, 20 in. Long, 2⅜ in. Cutter, | 1 85 |
| No. 30—Jointer, 22 in Long, 2⅜ in. Cutter, | $2 00 |
| No. 31—Jointer, 24 in Long, 2⅝ in. Cutter, | 2 00 |
| No. 32—Jointer, 26 in Long, 2⅝ in. Cutter, | 2 20 |
| No. 33—Jointer, 28 in. Long, 2⅝ in Cutter, | 2.20 |
| No. 34—Jointer, 30 in Long, 2⅝ in. Cutter | 2.35 |



## Stanley's.

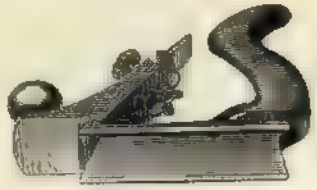
| | Each |
|---|---|
| No. 122—Smooth, 8 in Long, 1¾ in Cutter, | $1.00 |
| No. 135—Handled Smooth, 10 in Long, 2⅜ in Cutter, | $1.35 |

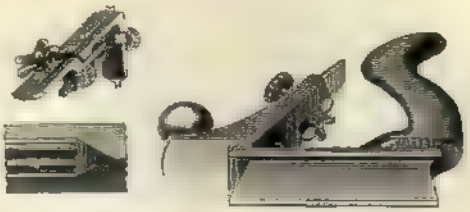
| | Each |
|---|---|
| No. 127—Jack, 15 in. Long, 2⅜ in Cutter, | $1.35 |
| No. 129 Fore, 20 in Long, 2⅜ in Cutter, | 1 50 |
| No. 132—Jointer, 26 in Long, 2⅜ in. Cutter, | 1 70 |

One in a Package

# Adjustable Iron Planes.

Stanley's.





### Chamfer.

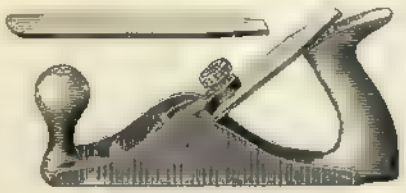
Each.

**No. 72**—9 in. Long, 1⅝ in. Cutter, . $2.00

**No. 72½**—9 in. Long, 1⅝ in. Cutter, with Beading and Moulding Attachment, . . . $3.00

The front section of No. 72 Plane, to which the Cutter is attached, is movable up and down. It can be firmly secured to the rear section of the Plane at any desired point by means of a thumb screw. Without the use of any other tool this Plane will do perfect chamfer or stop chamfer work of all ordinary widths.

When the two sections are clamped together so as to form an even base line, the tool can be used as an ordinary bench plane.

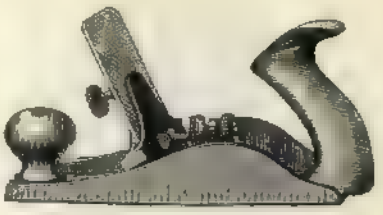


### Scrub.

Each.

**No. 40**—9½ in. Long, 1¼ in. Cutter, . . . $1.00

This tool has a single iron with the cutting edge rounded, and is particularly adapted for roughing down work before using a Jack or other Plane.



### Scraper.

Each.

**No. 112**—9 in. Long, 3 in. Cutter, . . . $2.00

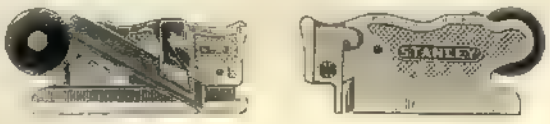
This tool, by its peculiar construction, can be used for scraping and finishing veneers.

### Veneer Scraper.

Each.

**No. 12**—Adjustable, 3 in. Cutter, . . . $2.25

This tool is used by belt makers for chamfering down the laps of a belt, before fastening them together. Is equally well adapted to use in repairing belts in all large manufacturing establishments.




### Side Bead Rabbet.

Each.

**No. 98**—4 in. Long, Right Hand, . . . $0.90

**No. 99**—4 in. Long, Left Hand, . . . . .90

For side rabbeting and trimming dados, mouldings and grooves of all sorts. A reversible nose piece will give the tool a form by which it will work close up into corners.

# Screw and Bolt Cases.

American.

Code Kohler

## Screw Cases.

Each

**No. 1—72 Drawers, 34 In. High, 21 In. Wide, 21 In. Deep, . . . $30.50**
Weight 80 lbs. Each.

Drawers for No. 1 Case Labeled as Follows:

| | |
|---|---|
| ½ In. x 3, 4, 5, 6, 7. | 1½ In. x 8, 9, 10, 11, 12, 13, 14, 15, 16. |
| ⅜ In. x 5, 6, 7, 8. | |
| ⅝ In. x 5, 6, 7, 8, 9. | 1¾ In. x 9, 10, 11, 12, 13, 14, 15, 16, 17. |
| ⅞ In. x 7, 8, 9, 10. | |
| 1 In. x 6, 7, 8, 9, 10, 11, 12, 13, 14. | 2 In. x 10, 11, 12, 13, 14, 15, 16, 17, 18. |
| 1¼ In. x 7, 8, 9, 10, 11, 12, 13, 14, 15. | 2½ In. x 12, 13, 14, 15, 16. |
| | 3 In. x 16, 18, 20, 22. |

Code Kohlhau

Each

**No. 2—80 Drawers, 36 In. High, 21 In. Wide, 21. In. Deep, . . . $35.00**
Weight 85 lbs. Each.

Drawers for No. 2 Case Labeled as Follows:

| | |
|---|---|
| ⅜ In. x 2, 3, 4. | 1½ In. x 8, 9, 10, 11, 12, 13, 14, 15, 16. |
| ½ In. x 3, 4, 5, 6, 7. | |
| ⅝ In. x 4, 5, 6, 7, 8. | 1¾ In. x 9, 10, 11, 12, 13, 14, 15, 16, 17. |
| ¾ In. x 4, 5, 6, 7, 8, 9, 10. | |
| ⅞ In. x 6, 7, 8, 9, 10, 11. | 2 In. x 10, 11, 12, 13, 14, 15, 16, 17, 18. |
| 1 In. x 6, 7, 8, 9, 10, 11, 12, 13, 14. | 2½ In. x 12, 13, 14, 15, 16. |
| 1¼ In. x 7, 8, 9, 10, 11, 12, 13, 14, 15. | 3 In. x 16, 18, 20, 22. |

Code Kohlblatt

Each

**No. 3—88 Drawers, 40 In. High, 25 In. Wide, 25 In. Deep, . . . . $37.50**
Weight 90 lbs. Each.

Drawers for No. 3 Case Labeled as Follows:

| | |
|---|---|
| ¼ In. x 1, 2 | 1½ In. x 8, 9, 10, 11, 12, 13, 14, 15, 16. |
| ⅜ In. x 2, 3, 4, 5. | |
| ½ In. x 3, 4, 5, 6, 7. | 1¾ In. x 9, 10, 11, 12, 13, 14, 15, 16, 17, 18. |
| ⅝ In. x 4, 5, 6, 7, 8, 9. | |
| ¾ In. x 4, 5, 6, 7, 8, 9, 10. | 2 In. x 10, 11, 12, 13, 14, 15, 16, 17, 18. |
| ⅞ In. x 6, 7, 8, 9, 10, 11, 12. | |
| 1 In. x 6, 7, 8, 9, 10, 11, 12, 13, 14, 15. | 2½ In. x 12, 13, 14, 15, 16. |
| 1¼ In. x 7, 8, 9, 10, 11, 12, 13, 14, 15, 16. | 3 In. x 16, 18, 20, 22. |

The Drawers are all provided with Stops to prevent their removal from the Case. Each Drawer holds a package of Bolts or Screws of the Size and Number indicated on the Front of the Drawers. Numbers on Bolt and Screw Cases changed to suit Purchasers without Extra Charge. Not Carried in Stock; for Factory Shipment Only.

Code Kohlhof

## Bolt Cases.

Each

**No. 1 98 Drawers, Base 31x31x15 In., Height Over All 60 In., . . $60.00**
Weight 250 lbs. Each.

Drawers for No. 1 Case Labeled as Follows:

### Tire Bolts.

5/16 In. x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3.
¼ In. x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3.
5/16 In. x 2, 2¼, 2½.

### Carriage Bolts.

¼ In. x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5.
5/16 In. x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5¼, 5½, 6.
⅜ In. x 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 5, 6.
7/16 In. x 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 8, 9, 10.
½ In. x 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 8, 9, 10, 11, 12.

Code Kohliger

Each

**No. 2—104 Drawers, Base 31x31x20 In., Height Over All 65 In., . . $66.00**
Weight 300 lbs. Each.

Drawers for No. 2 Case Labeled as Follows:

### Tire Bolts.

5/16 In. x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3.
¼ In. x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3.
5/16 In. x 2, 2¼, 2½.

### Carriage Bolts.

¼ In. x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5.
5/16 In. x 1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5¼, 6½, 6.
⅜ In. x 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 5, 6.
7/16 In. x 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10.
½ In. x 2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10, 11, 12.

SCHWABACHER HARDWARE CO.

# Anvils.

Blacksmiths'.

Horseshoers'.

**American, Wrought Iron, Solid Steel Face.**

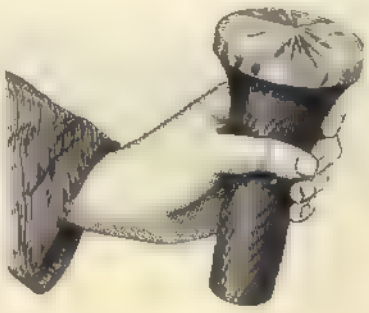
| | Per Pound |
|---|---|
| Weights Assorted, 70 to 84 Lbs., | $0 16 |
| Weights Assorted, 85 to 300 Lbs., | .14 |
| Weights Assorted, 150 to 200 Lbs., | $0.16 |

**Vulcan, Cast Iron, Cast Steel Face.**

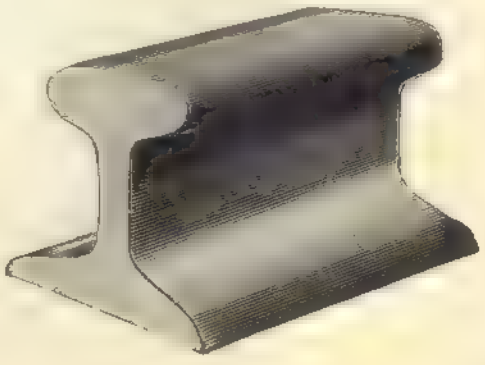
| Nos. | 00 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|---|
| Weight, Pounds. | [illegible] | 10 | 15 | 20 | 30 | 40 | 50 | 60 | 70 |
| Each. | $2 00 | 2 75 | 3.25 | 4 00 | 4.50 | 5 25 | 6.00 | 6.50 | 7 25 |

| Nos. | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|
| Weight, Pounds. | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 |
| Each. | $8.00 | 9.00 | 10.00 | 11 00 | 12 00 | 13.00 | 14 00 | 15 00 |

# Plow Anvils.



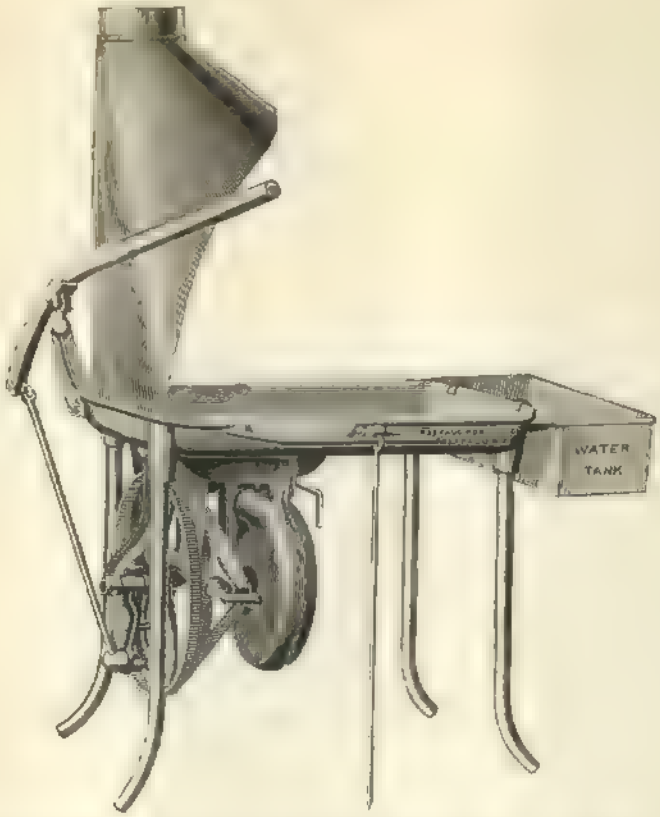
**No. 10** Howell's Pattern, Iron, Japanned, Polished Steel Face. — Per Dozen $5.00



**No. 1** - Rail, 6 in. Long, Cast Steel, — Per Dozen $6 00

# Portable Forges.

Buffalo Forge Co.'s.

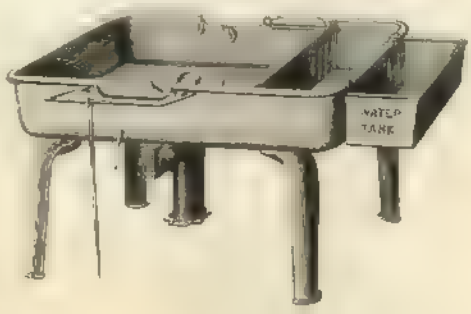



| | | Each |
|---|---|---|
| **No. 0** | Blacksmiths' Forges without Water Tank, Hearth 28x40 in., Height 30 in. with Hood, Weight 250 Lbs. | $50 00 |
| **No. 0** | Blacksmiths' Forges with Water Tank, Hearth 28x40 in., Height 30 in., with Hood, Weight 300 Lbs. | 54 00 |

**This Forge is Guaranteed to produce a Welding Heat on 3 in. Iron in five minutes, on 4 in. Iron in ten minutes, and on heavier work, if desired, in the same proportion of time**

# Stationary Forges.

Buffalo Forge Co.'s

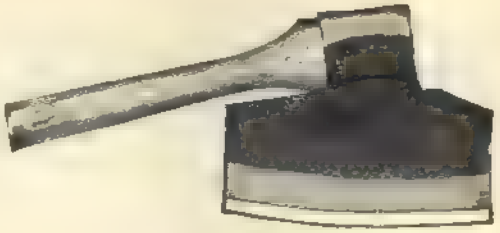



| | | Each |
|---|---|---|
| **No. 0S** | Stationary Blast Forges Hearth 28x40 in. Height 26 in., Weight 160 Lbs. | $20 00 |
| **No. 00S** | Stationary Blast Forges Hearth 38x51 in. Height 26 in., Weight 425 Lbs. | $40.00 |

**These Forges, although light in appearance are very strong, are cheaper and much handsomer than the Brick Forge and can be easily moved when desired. No. 0S Forge has large, deep Fire Pan, with heavy Tuyere, and is especially intended for Heavy Work, is complete in every respect, combining Coal Box, Water Tank and Blast Gate with Lever in Tuyere**

# Coopers' Tools.

D. R. Barton's.



**Adzes, Half Polished.**

| Nos. | 1 | 1⅛ | 2 |
|---|---|---|---|
| Per Dozen, | $30 00 | 28 50 | 27 00 |

**Adzes, Full Polished.**

| Nos. | 1 | 1⅛ | 2 |
|---|---|---|---|
| Per Dozen, | $33 00 | 31 50 | 30.00 |

**Axes, Half Polished.**

| Nos. | 1 | 1⅛ | 2 |
|---|---|---|---|
| Per Dozen, | $33 00 | 30 00 | 27.00 |

**Axes, Full Polished.**

| Nos. | 1 | 1⅛ | 2 |
|---|---|---|---|
| Per Dozen, | $36 00 | 33.00 | 30.00 |

**Scrapers.**

**No. 139**—Cast Steel, with Handle, . . . . . Per Dozen $6.00

**Hoop Drivers.**

**No. 50**—Plain Hickory, without Ring, . . Per Dozen $3.75

**No. 60**—Plain Hickory, with Ring, . . . Per Dozen $5.00

**No. 165**—Nantucket, Cast Steel, without Handle, Per Dozen $7.50

**No. 166**—Short and Oval, Cast Steel, without Handle, . . . Per Dozen $11.25

**No. 164**—Socket, Cast Steel, with Handle, . Per Dozen $11.25

**Spoke Shaves.**

**Barton's.**

**No. 75** -2⅝ in Cutter, Cleveland Pattern, Walnut Handles, . . . . . Per Dozen $12.50

Extra Cutters for No. 75, . . . . . 3.60

**Bailey's.**

**No. 56** —18 in., 2⅝ in Cutter, Iron Handles, Per Dozen $7 00

**No. 56½**—19 in., 4 in. Cutter, Iron Handles, . 9.00

Extra Cutters for No. 56, . . . . . 1.50

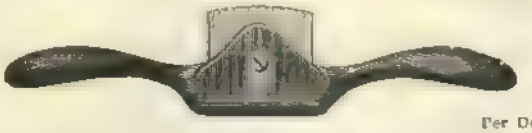
Extra Cutters for No. 56½, . . . . . 2.00

# Iron Spoke Shaves.

Per Dozen.

**No. 1**—Smith's, Straight Handles, 9 in. Long, 2 in Cutter, . . . . . $2.00

Half Dozen in a Box.



Per Dozen.

**No. 2** Smith's, Raised Handles, 10 in Long, 2 in Cutter, . . . . . $2 80

Per Dozen

**No. 3** Smith's Straight Handles, 10 in Long, Two 1½ in. Cutters, Hollow and Straight, . $3.60

Per Dozen.

**No. 52**—Bailey's, Straight Handles, 10 in Long, Double Iron, 2⅜ in Cutter, . . . . $3.50

Extra Cutters for No. 52 Shaves, . . . . 1 00

Per Dozen

**No. 53** Bailey's Adjustable Raised Handles, 10 in. Long, 2⅜ in. Cutter, . . . . . $4.50

Extra Cutters for No. 53 Shaves, . . . . 1.00

Per Dozen

**No. 54** Bailey's, Adjustable, Straight Handles, 10 in Long, 2⅜ in. Cutter, . . . . $4 50

Extra Cutters for No. 54 Shaves, . . . . 1 00

Per Dozen

**No. 55**—Bailey's Model, Raised Handles 10 in Long, Double Iron, Hollow Face, 2⅜ in Cutter, $3.00

Extra Cutters for No. 55 Shaves, . . . . 1.00

Per Dozen

**No. 60**—Bailey's, Straight Handles, 10 in Long, Two 1¾ in Cutters Hollow and Straight $4.50

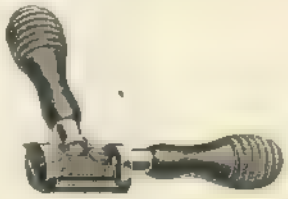
Extra Cutters for No. 60 Shaves, . . . . 1.50

Per Dozen

**No. 65** Bailey's Chamfer Adjustable Raised Handles, 10 in. Long 1½ in Cutter, $6 00

This Tool can be easily adjusted by means of the Thumb-Screws attached to the Guides, and will chamfer an edge any desired width up to 1¼ inch

One Dozen in a Box



Per Dozen.

**No. 67**—Universal, Nickel Plated, Rosewood Handles, . . . . . $18.00

This Spoke Shave has two detachable bottoms adapting it particularly well to circular work or straight, and by means of a movable Width Gauge the tool can be used in reaming. Both Handles are detachable and either of them can be screwed into a socket on top of the stock, thus enabling the owner to work into corners, or panels, as no other spoke shave can do

One-Twelfth Dozen in a Box

# Wood Spoke Shaves.

**To Drive.**

Per Dozen

**No. 10**—Beechwood, Plain, 3 in Steel Cutter, $3 65

**No. 12**—Beechwood, Plated, 2½ in Steel Cutter 4 00

**No. 12**—Beechwood, Plated, 3 in Steel Cutter 4 50

**No. 20** Boxwood, Plain, 3 in Steel Cutter 5 50

**With Set Screw.**

Per Dozen

**No. 15** Beechwood, Plated, 3 in Steel Cutter. $10 00

**No. 15**—Beechwood, Plated, 3½ in Steel Cutter . 10 50

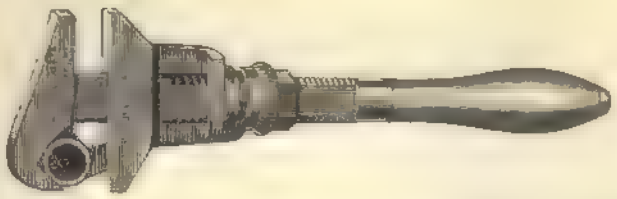
**No. 25** Boxwood, Plain, 3 in Steel Cutter, . 12 00

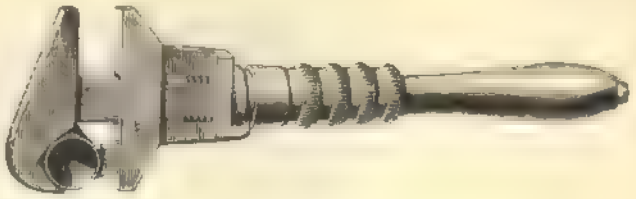
**No. 30** Boxwood, Plated, 3 in Steel Cutter, 12 50

**No. 30**—Boxwood, Plated, 3½ in. Steel Cutter, . 13.40

Half Dozen in a Box

# Wrenches.





**Bemis & Call's Combination.**

**Short Nut, Bright.**

| Nos. | 10 | 12 | 15 |
|---|---|---|---|
| Length, Inches, | 10 | 12 | 15 |
| Holds Pipe, Inches, . | ⅛ to 1 | ⅛ to 1½ | ⅛ to 2 |
| Per Dozen. | $23 00 | 26.00 | 37.00 |
| | | | Per Dozen. |
| **Extra Dogs** for Nos. 10, 12 and 15, . . | | | $4 50 |

**Long Nut, Bright.**

| Nos. . . | 010 | 012 | 015 |
|---|---|---|---|
| Length, Inches, . | 10 | 12 | 15 |
| Holds Pipe, Inches, | ⅛ to 1 | ⅛ to 1¾ | ⅛ to 2 |
| Per Dozen. . . | $25 25 | 28 50 | 40 50 |
| | | | Per Dozen. |
| **Extra Dogs** for Nos 010, 012 and 015, | | | $4 50 |

# Pipe Wrenches.

**Trimo.**

| Length Open, Inches | 6 | 8 | 10 | 14 | 18 | 24 | 36 |
|---|---|---|---|---|---|---|---|
| Takes Pipe, Inches, | ⅛ to ⅜ | ⅛ to ¾ | ⅛ to 1 | ¼ to 1½ | ¼ to 2 | ¼ to 2½ | ¼ to 3½ |
| Each, | $2.00 | 2 00 | 2.25 | 3.00 | 4.00 | 6.00 | 12 00 |

**Extra Jaws for Trimo Pipe Wrenches.**

| For Wrench, Inches, | 6 | 8 | 10 | 14 | 18 | 24 | 36 |
|---|---|---|---|---|---|---|---|
| Each, | $0 67 | 67 | 75 | 1.00 | 1 33 | 2 00 | 4 00 |

**Taylor's.**

| Length Open, Inches, | 12 | 15 | 20 | 25 |
|---|---|---|---|---|
| Takes Pipe, Inches, | ⅛ to 1 | ⅛ to 1½ | ⅛ to 2 | ⅛ to 2½ |
| Each | $2 50 | 3 00 | 4 00 | 6 00 |

6 to 14 in.

18 to 36 in.

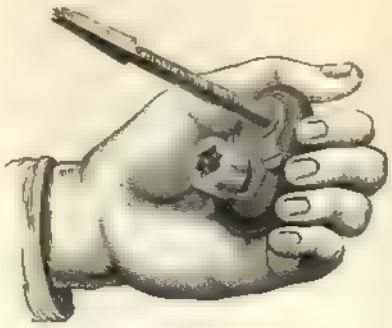
**Stillson's.**

| Length Open, Inches. | 8 | 10 | 14 | 18 | 24 | 36 |
|---|---|---|---|---|---|---|
| Takes Pipe, Inches, | ⅛ to ⅜ | ⅛ to 1 | ¼ to 1½ | ¼ to 2 | ¼ to 2½ | ¼ to 3½ |
| Each, | $2.00 | 2 25 | 3.00 | 4 00 | 6.00 | 12 00 |

**Extra Jaws for Stillson's Pipe Wrenches.**

| For Wrench, Inches, | 8 | 10 | 14 | 18 | 24 | 36 |
|---|---|---|---|---|---|---|
| Each, | $0.67 | .75 | 1.00 | 1.33 | 2.00 | 4 00 |

# Rim Wrenches.



Each

**No. 1**—Green River, Adapted for Use on ⅜, 7/16 and ½ in. Nuts. $1.50

# Nut Wrenches.

**Lightning.**

For Square and Hexagon Nuts.

Per Set

**No. 5**—In Sets of 5 for ½, 7/16, ⅝, ¾ and ⅞ in Nuts. $1 25

Each

**No. 5**—Separate Sizes. . . . . $0 25

**Chamberlin's.**

For Square Nuts.

Per Set

**No. 10** In Sets of 5 for ½, 7/16, ⅝, ¾ and ⅞ in Nuts $0.75

Each

**No. 10**—Separate Sizes . $0.15

# Pocket Wrenches.

Per Dozen.

**No. 21**—4 in., Aiken's Pattern, Polished, Brass Nut, $4.50

**No. 22**—4 in., Aiken's Pattern, Nickel Plated, Brass Nut. . . . . 5.20

Per Dozen.

**No. 5** 5½ in., Acme, Cast Steel, Polished, $8 00

**No. 6**—5½ in., Acme, Cast Steel, Nickel Plated. 9 60

Per Dozen.

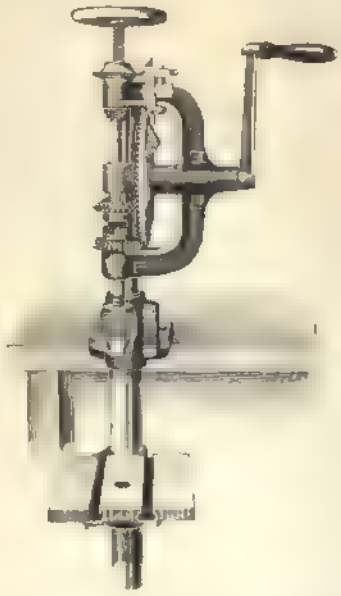
**No. 10**—5½ in., Badger, Cast Steel, Hardened Jaws, Nickel Plated. . . . . $2 50

Per Dozen.

**No. 15** 5½ in., Enterprise, Cast Steel, Hardened Jaws, Nickel Plated. $3.50

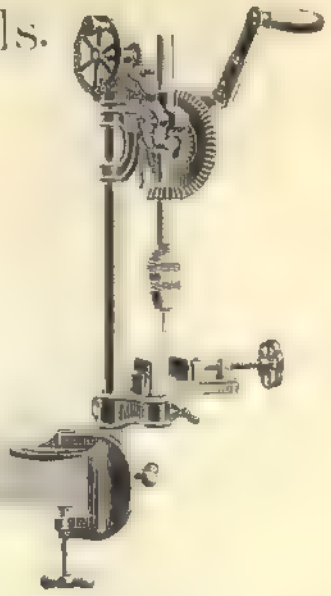
Half Dozen in a Box

# Bench Drills.



**Goodell's.**

| | Each. |
|---|---|
| No. 11—Automatic Feed, Extension Handle, Adjustable Swing Table, Cut Gears. Three Jawed Chuck, will Drill to ½ in. Diameter | $18.00 |



**Universal.**

| | Each. |
|---|---|
| No. 21—Hand Feed, Extension Handle, Swing Vise Rest, Adjustable. Three Jawed Chuck, will Drill to ½ in Diameter, . . . | $7.00 |

# Drill Chucks.

½ in Round Shank, for Blacksmiths' Drills

| | | Each |
|---|---|---|
| No. 14 | For Straight Shank Drills up to 5/32 in. | $1 50 |
| No. 15 | For Straight Shank Drills up to ¼ in., | 2 00 |
| No. 15½ | For Straight Shank Drills up to 5/16 in., | 3.00 |
| No. 16 | For Straight Shank Drills up to ⅜ in., | 4 00 |

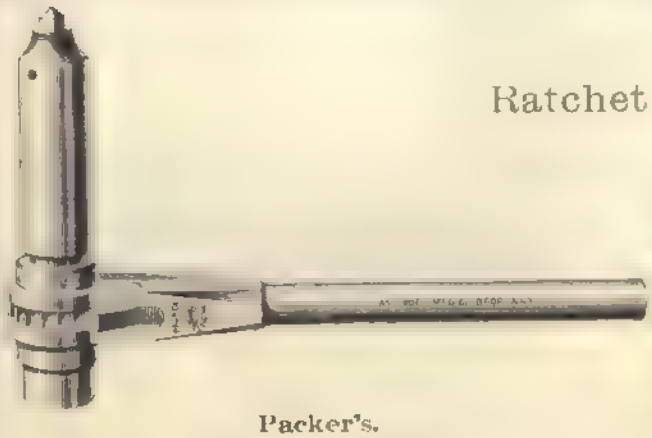
# Ratchet Drills.

**Parker's.**

For Square Shank Drills.

| | Each |
|---|---|
| No. 5—12 inch Handle. . . | $6.00 |
| No. 6—15 inch Handle. | 7 00 |

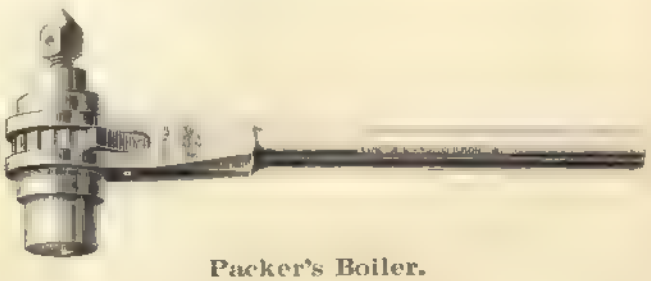
# Ratchet Drills.



**Packer's.**

For Square Shank Drills

| | Each |
|---|---|
| No. 2—12 inch Handle. | $14 50 |
| No. 3—16 inch Handle. | 16 00 |

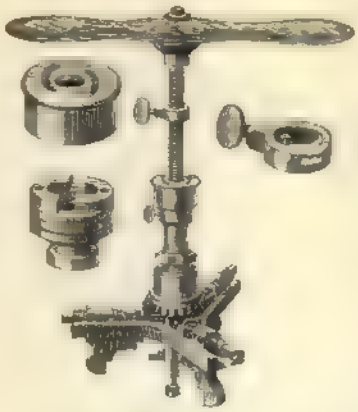


**Packer's Boiler.**

For Square Shank Drills.

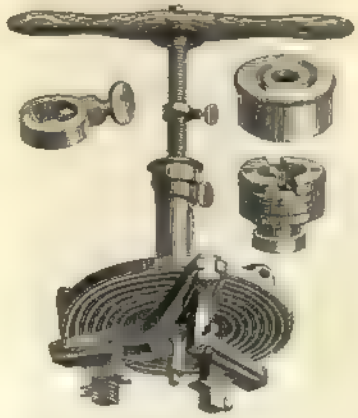
| | Each |
|---|---|
| No. 10—10 inch Handle. | $ 9 00 |
| No. 20—12 inch Handle. | 10 50 |

# Hub Boxing Machines.



**Silver's.**

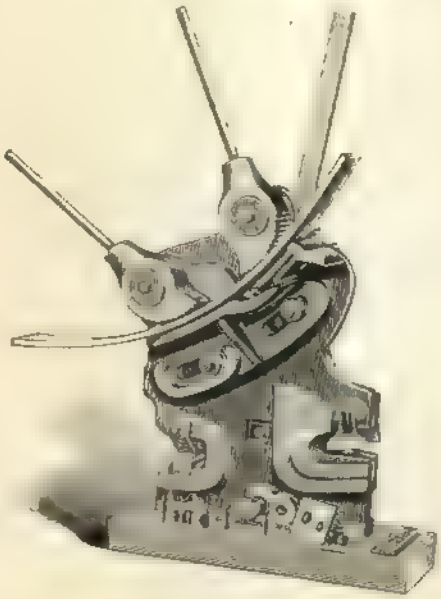
| | Each |
|---|---|
| **No. 1**—Silver's with Clamp Hubs from 2 to 9¼ in. Diameter, | $25.00 |
| | Per Set |
| Extra Mandrel and Bits, for No. 1 Silver's, | $3.00 |



**Dole's Old Standard.**

| | Each |
|---|---|
| **No. 1** Dole's, Open Adjustable Feed Nut with Clamp Hubs from 2 to 6 in. Diameter. | $20.00 |
| **No. 2**– Dole's, Open Adjustable Feed Nut, with Clamp Hubs from 2 to 12 in. Diameter. | 23.00 |
| | Per Set |
| Extra Bits for No. 1 Dole's. | $0.60 |
| Extra Bits for No. 2 Dole's. | .75 |

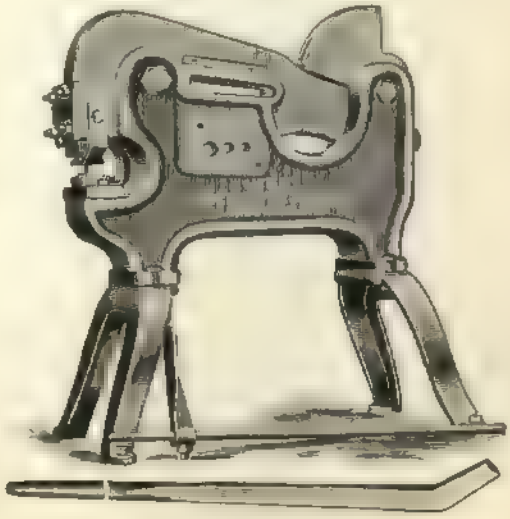
# Combined Punches and Shears.



**Black Giant.**

| | Each |
|---|---|
| **No. 5** Complete with Bench, Steel Lever Six Punches and Dies, ¼, ⅜, ½, 11/16, ½ and ⅝ in. Weight 460 Lbs. | $60.00 |

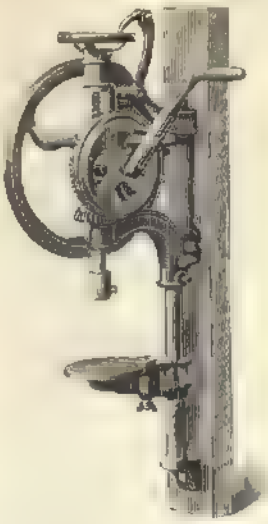
Will Punch ⅝ in. Iron also a ¾ in. Hole in ⅝ in. Iron 6 in. from Edge



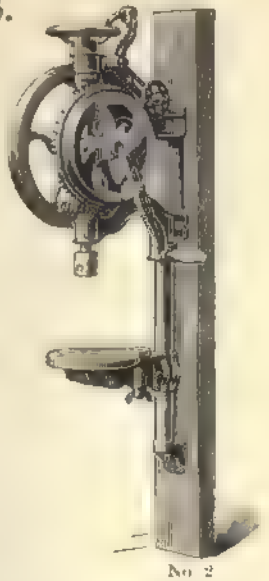
| | Each |
|---|---|
| **No. 33** Will Cut ½x2½ in. or ⅝x3 in. Flat Iron, or ⅞ in. Round Iron and Punch a ⅝ in. Hole in ⅝ in. Iron or Their Equivalents; Furnished with 3 Sets of Dies, Punches and and Lever, Weight 260 Lbs. | $33.00 |
| **No. 66** Will Cut ½x4 in., or ⅝x3 in. Flat Iron, or 1 in. Round Iron and Punch a ½ in. Hole in ½ in. Iron or Their Equivalents; Furnished with 3 Sets of Dies, Punches and Lever, Weight 490 Lbs. | 60.00 |

# Blacksmiths' Drills.

No. 1½.



No. 1



No. 2

**Drill Spindle Bored for ⅛ in. Shank Drills.**

Each

**No. 1½**—Silver's, Single Geared, Hand Feed, Extension Crank, Swing Table, will Drill up to ¾ in. Diameter, and to Center of 12 in Circle. $6 00

Weight 55 Lbs

Each

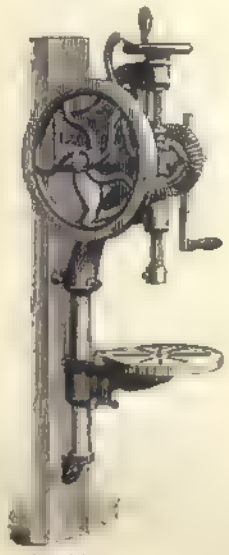
**No. 1**—Silver's, Double Geared, Self Feed, Extension Crank, Swing Table, will Drill up to ¾ in Diameter, and to Center of 12 in. Circle, . . $8.00

Weight 80 Lbs

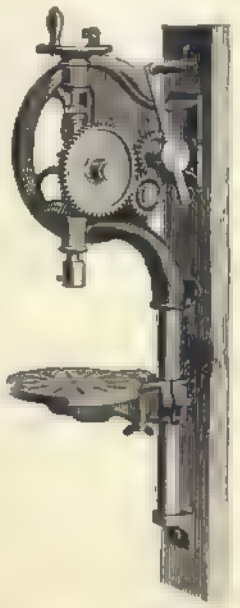
Each

**No. 2** Silver's, Double Geared, Self Feed, Extension Crank, Swing Table, will Drill up to 1 in. Diameter, and to Center of 14½ in Circle, . . $10.00

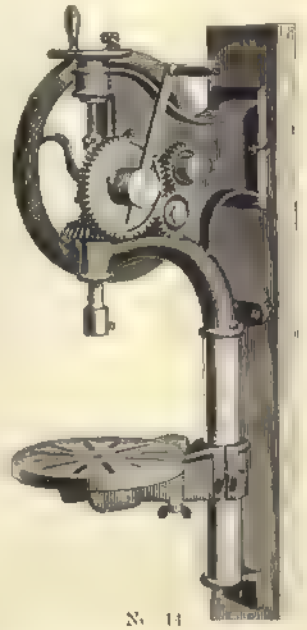
Weight 100 Lbs



No. 12



No. 13



No. 14

**Drill Spindle Bored for ¼ in. Shank Drills.**

Each

**No. 12 Silver's** Advance, Automatic Feed, Extension Crank, Swing Table, will Drill up to 1¼ in. Diameter, and to Center of 15 in. Circle. . . . . $10.00

Weight 125 Lbs

Each

**No. 13 Silver's** Advance, Double Back Geared, Automatic Feed, Extension Crank, Swing Table, will Drill up to 1½ in Diameter, and to Center of 18 in. Circle. $16.00

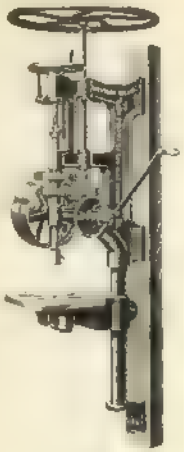
Weight 175 Lbs

Each

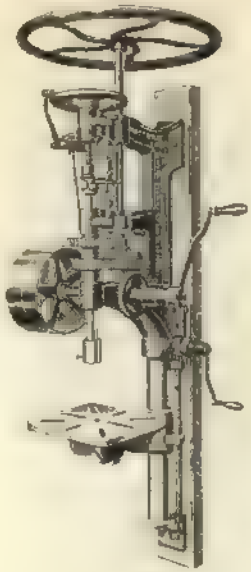
**No. 14 Silver's** Advance, Double Back Geared, Automatic Feed, Extension Crank, Swing Table, will Drill up to 1½ in. Diameter, and to Center of 22 in. Circle. $25.00

Weight 240 Lbs

# Blacksmiths' Upright Drills.



No. 012W



No. 014W

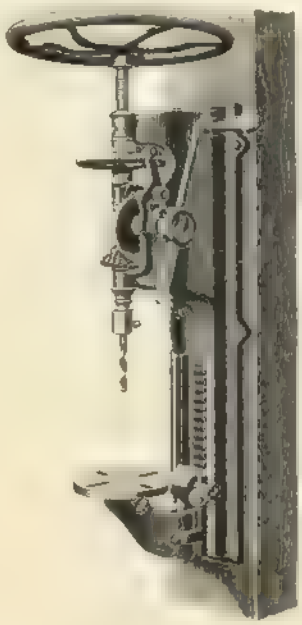
## Western Chief.

| | | Each. |
|---|---|---|
| No. 12W | Without Pulleys for Hand Power Only | $27 50 |
| No. 012W | With Hand and Pulley Power Attachments, | 31 50 |

Changeable Speed, Extension Crank, Swing Table, Iron Bed, will drill to center of 21 in. circle. Bores from 0 to 1⅛ in. Drill Spindle Bored for ½ in. Round Shank Drill.

| | | Each |
|---|---|---|
| No. 14W | Without Pulleys for Hand Power Only, | $38 50 |
| No. 014W | With Hand and Pulley Power Attachments | 42 50 |

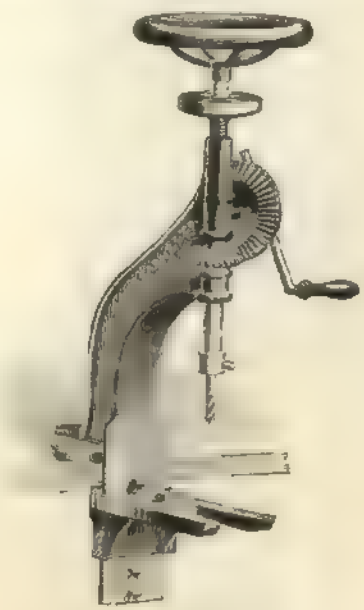
Changeable Speed, Self Feed, Extension Crank, Swing Table, Iron Bed, will drill to center of 21 in. circle. Bores from 0 to 1⅛ in. Drill Spindle Bored for ½ in., Round Shank Drill.



## Green River.

Drill Spindle Bored for ½ in. Round Shank Drills.

| | | Each. |
|---|---|---|
| No. A V | Changeable Ratchet Feed, Extension Crank, Swing Table, Iron Bed, Ball Bearings, will Drill to Center of 15 in. Circle, Weight 175 Lbs. | $18 00 |



## Stearns' Bench.

| | | Each |
|---|---|---|
| No. 1 | Self Feed, Adjustable Bed Plate, Extension Crank, will Drill up to ½ in. Diameter, will Hold ⅜ in. Round Shank, or Ordinary Taper Shank Brace Drills, Weight 29 Lbs. | $10.00 |

# Double Bitted Axes.

**Wisconsin Pattern.**

## Black Giant.

| | Per Dozen |
|---|---|
| **Black Giant—English Refined Cast Steel, Hand Hammered, Black Finish,** . . . . . | . $22.00 |
| Wisconsin Pattern, Weights Assorted, $3\frac{1}{4}$ to $3\frac{3}{4}$, $3\frac{1}{2}$ to $4\frac{1}{4}$, $3\frac{1}{2}$ to 4, $3\frac{1}{2}$ to $4\frac{1}{2}$, $3\frac{3}{4}$ to $4\frac{3}{4}$, 4 to 5 Lbs. | |
| Michigan Pattern, Weights Assorted, $3\frac{1}{4}$ to $3\frac{3}{4}$, $3\frac{1}{4}$ to $4\frac{1}{4}$, $3\frac{1}{2}$ to 4, $3\frac{1}{2}$ to $4\frac{1}{2}$, $3\frac{3}{4}$ to $4\frac{3}{4}$ 4 to 5 Lbs | |

One Dozen in a Box

# Double Bitted Axes.

**Yankee Pattern.**

## Davies' Champion.

| | Per Dozen |
|---|---|
| **Davies' Champion**—Extra Quality, Diamond Steel, Gold Bronzed, . . . . . | $16.50 |

Yankee Pattern, Weights Assorted, 3½ to 4½, 3⅝ to 4, 3¾ to 4½, 3⅞ to 4⅝, 4 to 5 Lbs.
Michigan Pattern, Weights Assorted, 3½ to 4½, 3⅝ to 4, 3¾ to 4½, 3⅞ to 4⅝, 4 to 5 Lbs.

One Dozen in a Box.

# Single Bitted Axes.

**Yankee Pattern.**

## Black Giant.

| | Per Dozen |
|---|---|
| **Black Giant**—English Refined Cast Steel, Hand Hammered, Black Finish, | $14 50 |

Yankee Pattern, Weights Assorted, 3 to 4, 3¼ to 3¾, 3½ to 4¼, 3¾ to 4, 3¾ to 4¼, 3⅞ to 4⅞, 4 to 5 Lbs
Michigan Pattern, Weights Assorted, 3 to 4, 3¼ to 3¾, 3¼ to 4¼, 3½ to 4, 3½ to 4⅛, 3⅝ to 4⅛, 4 to 5 Lbs.

One Dozen in a Box

# Single Bitted Axes.

**Michigan Pattern.**

## Davies' Champion.

| | Per Dozen |
|---|---|
| **Davies' Champion**—Extra Quality Diamond Steel, Gold Bronzed, Polished Head. | $11.50 |

Yankee Pattern, Weights Assorted 2½ to 3, 2½ to 3½, 3 to 4, 3½ to 3⅝, 3½ to 4¼, 3⅝ to 4, 3¾ to 4¼, 3⅝ to 4¼, 4 to 5 Lbs.
Michigan Pattern, Weights Assorted, 3 to 4, 3½ to 4¼, 3⅝ to 4, 3⅝ to 4¼, 3⅝ to 4¼, 4 to 5 Lbs

One Dozen in a Box.

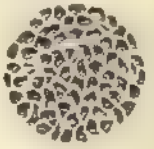
# Black Powder.

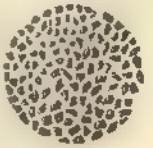
## Austin Powder Co.'s.

FG

FFG

FFFG


FG


FFG

FFFG

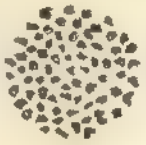
### Rifle.

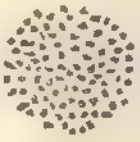
| | | Each. |
|---|---|---|
| Kegs, | 25 Lbs., FG, FFG, FFFG, | $6.00 |
| Half Kegs, | 12½ Lbs., FG, FFG, FFFG, | 3 25 |
| Quarter Kegs, | 6¼ Lbs., FG, FFG, FFFG, | 1 75 |
| One Lb Cans, | FG, FFG, FFFG, | 35 |
| Half Lb. Cans, | FG, FFG, FFFG, | 20 |

### Club Sporting.

| | | Each. |
|---|---|---|
| Kegs, | 25 Lbs. FG, FFG, FFFG, | $8 00 |
| Half Kegs, | 12½ Lbs., FG, FFG, FFFG, | 4 25 |
| Quarter Kegs, | 6¼ Lbs., FG, FFG, FFFG. | 2 25 |

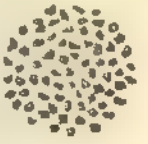
No. 1


No. 2.


No 3

No 4.

No 1


No. 2

No. 3.

### Crack Shot.

| | | Each. |
|---|---|---|
| Kegs, | 25 Lbs., Nos. 1, 2, 3 and 4, | $6.00 |
| Half Kegs, | 12½ Lbs., Nos 1, 2, 3 and 4, | 3.25 |
| Quarter Kegs, | 6¼ Lbs., Nos. 1, 2, 3 and 4, | 1.75 |

### Champion Ducking.

| | | Each |
|---|---|---|
| Quarter Kegs, | 6¼ Lbs., Nos 1, 2 and 3, | $4 25 |
| One Lb. Cans, | Nos. 1, 2 and 3, | .90 |

# Smokeless Powder.

### Dupont Sporting, for Shot Guns.

| | | Each |
|---|---|---|
| Kegs, | Equal in Bulk to 25 Lbs Black Powder, | $22 00 |
| Half Kegs, | Equal in Bulk to 12½ Lbs Black Powder, | 11 25 |
| Quarter Kegs, | Equal in Bulk to 6¼ Lbs. Black Powder, | 5.75 |
| Canisters, | Equal in Bulk to 1 Lb. Black Powder, | 1.00 |

### Dupont Rifle.

| | Each. |
|---|---|
| **No. 1**—Quarter Kegs, Equal in Bulk to 6¼ Lbs Black Powder, | $7.50 |
| **No. 1** Canisters, Equal in Bulk to 1 Lb Black Powder, | 1 25 |

Suitable for 45-90, 45-70, 40-82, 40-70, 40-60, 38-55, 32-40, 32-20 25-20, Cartridges

| | Each |
|---|---|
| **No. 2**—Quarter Kegs, Equal in Bulk to 6¼ Lbs Black Powder, | $7 50 |
| **No. 2**—Canisters, Equal in Bulk to 1 Lb. Black Powder, | 1 25 |

Suitable for 44-40, 38-40, 38 S. & W. Cartridges

| | Each |
|---|---|
| **No. 30**—Canisters, Equal in Bulk to 1 Lb. Black Powder, | $1 50 |

Suitable for '30-'30 Government Winchester and Marlin Cartridges.

### Austin "Champion Club" for Shot Guns.

| | | Each |
|---|---|---|
| Kegs, | Equal in Bulk to 25 Lbs. Black Powder, | $22 00 |
| Half Kegs, | Equal in Bulk to 12½ Lbs. Black Powder, | 11 25 |
| Quarter Kegs, | Equal in Bulk to 6¼ Lbs. Black Powder, | 5 75 |
| Canisters, | Equal in Bulk to 3 Lbs. Black Powder, | 3 00 |
| Canisters, | Equal in Bulk to 1 Lb. Black Powder, | 1.00 |

**Smokeless Powder** is in all cases sold by **Bulk**, not by **Weight.**

# Gun Caps.

| | Per 1000 |
|---|---|
| Goldmark's E B Ground Edge, Waterproof, Center Fire, Nos. 9 10, 11 and 12, | $0 90 |
| Goldmark's F L Trimmed Edge, Foil Lined, Waterproof, Center Fire, Nos. 9 10, 11 and 12, | .70 |
| G. D. Plain, Full Count, | .60 |
| Musket or Army, Waterproof, | 1.10 |

## Shot.

### Drop Shot.

| | Per Sack |
|---|---|
| Nos. 12 to 1 —Improved Finish, | $2.00 |
| Nos. B to 000—Improved Finish, | 2 25 |

Twenty-Five Pounds in a Sack

| | Per Sack |
|---|---|
| BB Drop Shot for Air Rifles, Improved Finish, | $0.65 |

Five Pounds in a Sack.

### Chilled Shot.

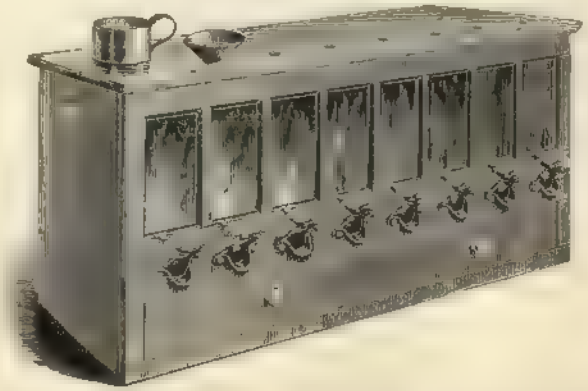
| | Per Sack |
|---|---|
| Nos. 10 to 3—Improved Finish, | $2.25 |

### Buck Shot.

| | Per Sack |
|---|---|
| Nos. 8 to 1 —Improved Finish, | 2.25 |

Twenty Five Pounds in a Sack.

## Shot Cases.



| | Each |
|---|---|
| No. 10 Hardwood Case, 24 in. Long, 12½ in High, 9¼ in Wide, Eight Compartments, each holding about 50 Pounds, | $5 00 |

# HATCHETS.

## Lath Hatchets.

Hickory Handle.

| | No | Length of Cut | Per dozen |
|---|---|---|---|
| Sharp's, | 1 | 2½ in. | 8.65 |
| " | 3, | 3 " | 9 75 |

## Underhill's Boston Lath Hatchets.

Hickory Handle.

| | Per dozen |
|---|---|
| Genuine | 39.60 |

One-half dozen in a box

## Lathing Hatchets.

Hickory Handle.

| | Per dozen |
|---|---|
| No. 131, P. S. & W. Co. | 20.00 |

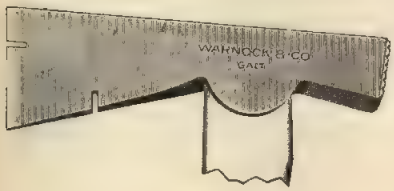
## Lathing Hatchets

Hickory Handle.

| | Per dozen |
|---|---|
| No. 141, P. S. & W. Co., Cast Steel Polished | 20.00 |

Half dozen in a box.

## Barrel Hatchets.

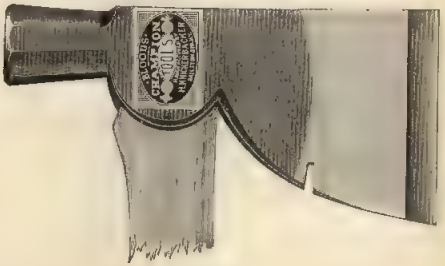



Hickory Handle.

| | Per dozen |
|---|---|
| Improved Pattern, Bright | 15.00 |

One-half dozen in a box.

## Tobacco Hatchets.




Hickory Handle.

| | Per dozen |
|---|---|
| No. 2, 3½ in. Heavy Blades | 13.80 |

Prices for full boxes.

# PANEL, HAND AND RIP SAWS.

No. 10.

**Perry & Bro.** Cast Steel Blades, Beech Handles, 3 Flush Screws.

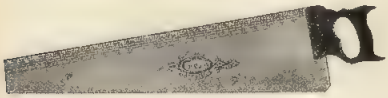
| | HAND SAWS | | | | | RIP SAWS |
|---|---|---|---|---|---|---|
| Length, inches | 18 | 20 | 22 | 24 | 26 | 26 |
| Points to the inch | 9 to 10 | 9 to 10 | 9 to 10 | 7 to 8 | 6 to 8 | 4½ to 5½ |
| Per dozen | 7.20 | 7.35 | 7.45 | 7.70 | 7 80 | 7 80 |

One-quarter dozen in a package.

No. 11.

**"Hanlan."** Cast Steel Blades, Beech Handles.

| | HAND SAWS |
|---|---|
| Length inches | 26 |
| Points to the inch | 6 to 7 |
| Per dozen | 9.60 |



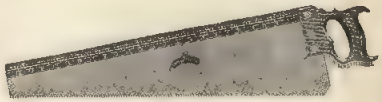
No. 40.

Combination Etched Rule and Square.

**"Cacouna."** Beech Handle, 3 Flush Screws.

| | HAND SAWS |
|---|---|
| Length, inches | 26 |
| Points to the inch | 6 to 7 |
| Per dozen | 10.80 |

One-quarter dozen in a package

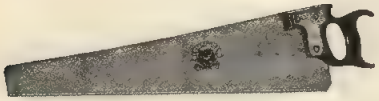


No. 8.

Combination Etched Rule and Square.

Beech Handle, 3 Flush Screws.

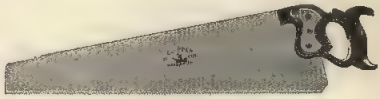
| | HAND SAWS |
|---|---|
| Length, inches | 26 |
| Points to the inch | 6 to 7 |
| Per dozen | 13.80 |



No. 25.

**"Enterprise."** Walnut Handle, Steel Plate on side of Handle, 3 Screws.

| | HAND SAWS |
|---|---|
| Length, inches | 26 |
| Points to the inch | 6 to 7 |
| Per dozen | 12.80 |

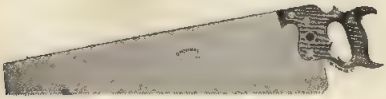


No. 6.

**"Clipper."** Walnut Handle, Steel Plate on side of Handle, 3 raised iron Screws.

| | HAND SAW |
|---|---|
| Length, inches | 26 |
| Points to the inch | 6 to 8 |
| Per dozen | 18.00 |

One-quarter dozen in a package



No. 9.

**Brown & Co.** Beech Handles, Polished Edges, 4 Screws.

| | HAND SAWS | RIP SAWS |
|---|---|---|
| Length, inches | 26 | 26 |
| Points to the inch | 6 to 7 | 4½ to 5½ |
| Per dozen | 13.20 | 13 20 |

One-quarter dozen in a package.

No. 265.

**"Columbia."** Skew Back, Silver Steel Blades, Beech Handles, 4 raised Screws.

| | HAND SAWS | | | | | RIP SAWS |
|---|---|---|---|---|---|---|
| Length, inches | 18 | 20 | 22 | 24 | 26 | 26 |
| Points to the inch | 10 to 11 | 8 to 12 | 8 to 11 | 8 to 11 | 6 to 10 | 4½ to 5 |
| Per dozen | 12.00 | 13.20 | 14.40 | 15.60 | 16.80 | 16.80 |

One-third dozen in a box.

H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

# Boys' Handled Axes.

**Clipper**—Extra Quality Diamond Steel, Gold Bronzed, Polished Head, with 28 in. Extra Turned Hickory Handle, . . . . Per Dozen. $10.00

**Little Giant**—Extra Quality Cast Steel, Blue Bevel, Red Finish, Polished Head, with 28 in. Extra Turned Hickory Handle, . . Per Dozen $10.00

One Dozen in a Case

# Sportsmen's Hatchets.

**No. 01**—Clipper, Best Quality Cast Steel, Silver Bronzed, 13 in. Handle, Weight 1½ Lbs. Each, . . . Per Dozen $10 00

Half Dozen in a Box.

# Hunters' Hatchets.

**No. 1**—Clipper, Extra Cast Steel, Silver Bronzed, with 16 in Extra Hickory Handle, Weight 1½ Lbs. Each, . Per Dozen $10.00

**No. 1**—Peerless, Extra Cast Steel, Gold Bronzed with 16 in. Extra Hickory Handle, Weight 1½ Lbs Each, . . . . . Per Dozen $10.00

**No. 10**—Peerless, Solid Steel, Full Polished and Etched, with 16 in. Extra Hickory Handle, Weight 1½ Lbs. Each, . . . . 12 50

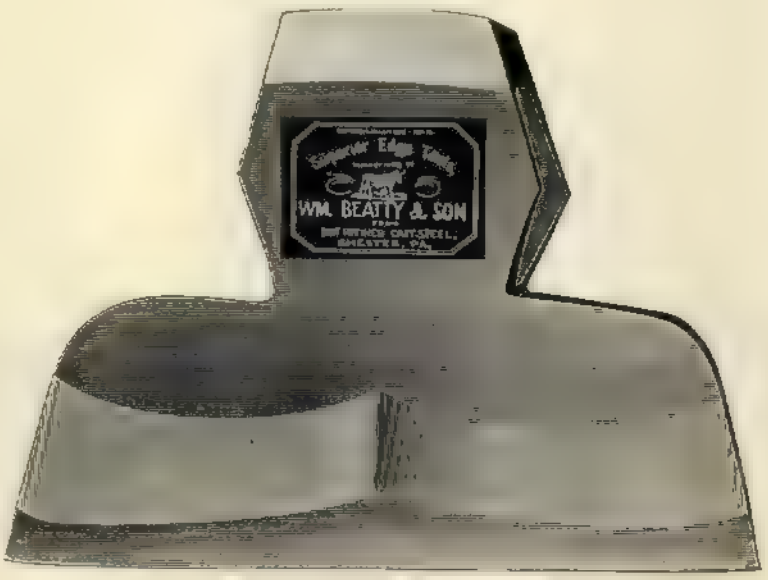
Half Dozen in a Box.

# Broad Axes.

**Pritzlaff's IXL, Special Pattern.**

Refined Cast Steel, Gold Bronzed, Polished Head, Cut 11 to 13 in.

| | | |
|---|---|---|
| Weights Assorted, Lbs., | 6 to 7 | 7 to 8½ |
| Per Dozen, | $44.00 | 46.00 |




**Beatty's, Canada Pattern.**

Refined Cast Steel, Gold Bronzed, Polished Head, Cut 11 to 13 in.

| | | | |
|---|---|---|---|
| Weights Assorted, Lbs., | 5½ to 6½ | 7 to 8½ | 9 to 11 |
| Per Dozen, | $37.00 | 40.00 | 43.00 |

Half Dozen in a Box

# Single Bitted Axes.

**Yankee Pattern.**

## Brilliant.

| | Per Dozen |
|---|---|
| **Brilliant**—All Steel, Diamond Steel Bit, Phantom Bevel, Full Polished and Etched, . . | $13.50 |

Yankee Pattern, Weights Assorted, 3½ to 3⅝ 3½ to 4½, 3½ to 4, 3½ to 4½, 3⅝ to 4⅝, 4 to 5 Lbs
Michigan Pattern, Weights Assorted, 3¼ to 3⅜, 3¼ to 4¼, 3½ to 4, 3½ to 4½, 3⅜ to 4⅜, 4 to 5 Lbs.

One Dozen in a Box

# Broad Axes.

**Beatty's, Western Pattern.**

Refined Cast Steel, Gold Bronzed, Polished Head, Cut 11 to 13 in.

| Weights Assorted, Lbs., | 5½ to 6⅛ | 6 to 7 | 6 to 7⅛ | 6⅛ to 8 | 7 to 8 | 8 to 9⅛ |
|---|---|---|---|---|---|---|
| Per Dozen, | $32.00 | 32 00 | 32.00 | 35.00 | 35 00 | 35 00 |

**Beatty's, Pennsylvania Pattern.**

Refined Cast Steel, Gold Bronzed, Polished Head, Cut 11 to 13 in.

| Weights Assorted, Lbs., | 6 to 7 | 6½ to 7¼ |
|---|---|---|
| Per Dozen, | $32.00 | 32.00 |

Half Dozen in a Box.

# Ship Axes.

Extra Cast Steel, Blue Finish, Polished Head

| | Per Dozen. |
|---|---|
| **No. 1**—Beatty's, Cut 6½ to 7 in., Weight 5 to 6 Lbs., . . . . | $30 00 |

Half Dozen in a Box

# Ship Adzes.

**Plain.**

Extra Cast Steel, Blued Finish.

| | Per Dozen |
|---|---|
| **No. 5**—Beatty's, Cut 4½ to 5½ in., . . . . | $30.00 |

Half Dozen in a Box.

**Side Lipped.**

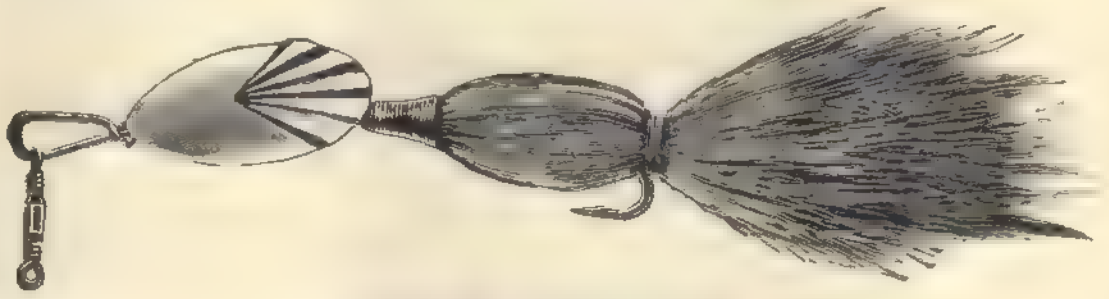
Extra Cast Steel, Blued Finish

| | Per Dozen |
|---|---|
| **No. 05**—Beatty's, Cut 4½ to 5½ in., | $33 00 |

# Fish Baits.

**Buck Tail Casting Spoons.**

| | Per Dozen. |
|---|---|
| **No. 3**—Buck Tail Casting Spoons, Mounted on Wire Rod with No. ½ Treble Hook, | $3 00 |
| **No. 4**—Buck Tail Casting Spoons, Mounted on Gut with No. ½ Treble Hook, | 3 50 |

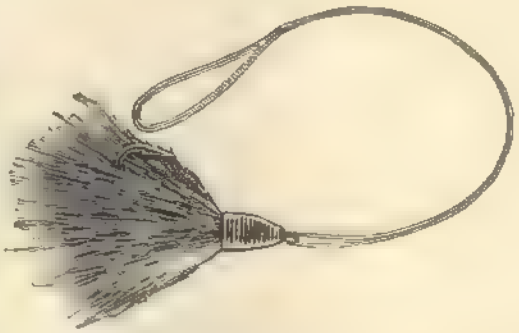


**Buck Tail Minnow Spoons.**

| | Per Dozen |
|---|---|
| **No. 5** Buck Tail Minnow Spoons, | $5.25 |

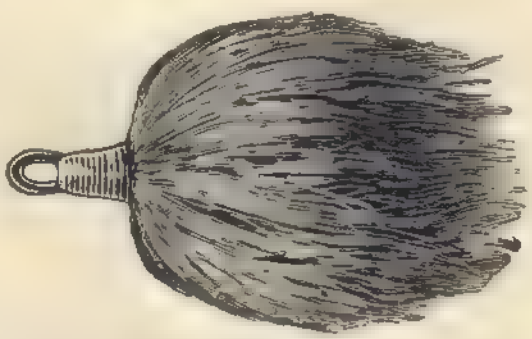
**Buck Tail Minnow Gangs.**

| | Per Dozen. |
|---|---|
| **No. 6**—Buck Tail Minnow Gangs, | $4.00 |



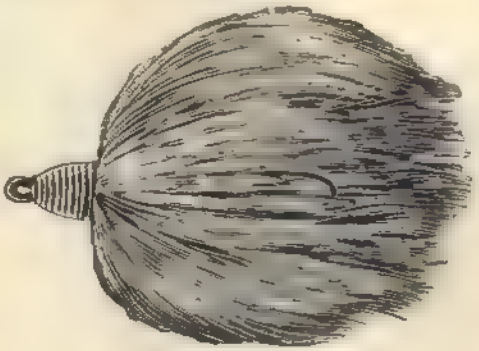
**Buck Tail Bass Flies.**

| | Per Dozen |
|---|---|
| **No. 7** Buck Tail Bass Flies, | $1.85 |



**Buck Tail Treble Hooks.**

| | Per Dozen |
|---|---|
| **No. 8**—Buck Tail Treble Hooks, | $2.25 |



**Buck Tail Bass Flies.**

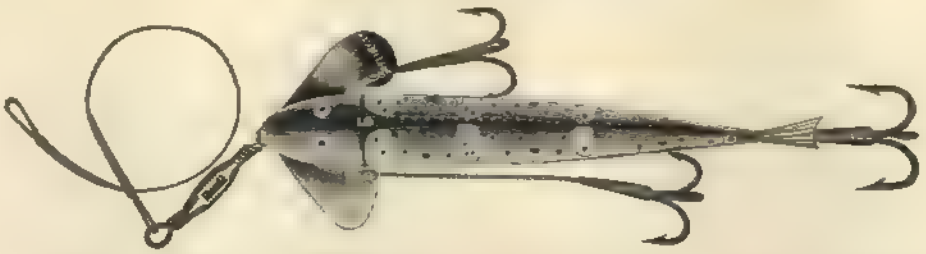
| | Per Dozen. |
|---|---|
| **No. 9**—Buck Tail Bass Flies, | $1.95 |

# Fish Baits.

**Soft Rubber Minnows, Decorated Green or Brown.**

| Nos. | 7 | 8 | 9 |
|---|---|---|---|
| Per Dozen, | $7.00 | 8.00 | 9.00 |

One-Twelfth Dozen in a Box



**Phantom Minnows, Waterproof Oiled Silk Body, Assorted Colors.**

| Nos. | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|
| Length, Inches, | 2½ | 3 | 3½ | 3¾ | 4½ | 5 |
| Per Dozen, | $9 00 | 9 00 | 9 00 | 9 50 | 11.50 | 13 00 |

One-Twelfth Dozen in a Box.

**Devon Minnows, Bright Metal Body.**

| Nos. | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Length, Inches, | 2 | 2¼ | 2½ | 2¾ | 3 |
| Per Dozen, | $6.00 | 6.00 | 6.00 | 6.00 | 6.00 |

One-Twelfth Dozen in a Box

Showing Gang when Mounted.

**St. Lawrence Minnow Gangs.**

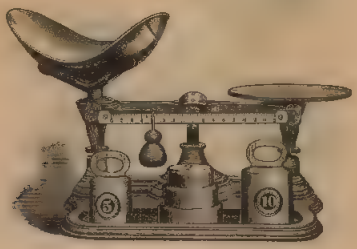
| Size of Treble Hooks, Nos. | 3 | 2 | 1 | 0 | 2-0 | 3-0 |
|---|---|---|---|---|---|---|
| Per Dozen, | $4.50 | 4.50 | 4 50 | 6.00 | 6.75 | 7 50 |

St. Lawrence Gangs have Elastic Spring Steel Treble Hooks, with Baiting Needle, Adjustable Lip Hooks and Treble Swivels Mounted on Silk Gimp Can be Adjusted instantly to any size Minnow, and does not kink same The Treble Swivels give Positive Revolution of Bait making it Impossible to Kink or Twist the Line.

One in a Box. Six in a Carton.

# Scales.

"Buffalo Scale Co.'s"

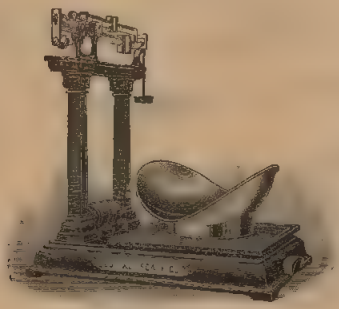


**Agate Bearing, Even Balance, with Side Beam.**

Full Jeweled. All Bearings of German Agate, Iron Work Finished in Gold, Bronze Scoop, Shield, Plate, Side Beam and Pivot Caps are of Brass, Nickel Plated. Nickel Plated Weights, Rubber Tipped Nickel Plated Scoop Forks.

Code Klimmend — Each

No. 516—Capacity ¼ Oz. to 8 lbs., with Brass Nickel Plated Scoop, . . . . . $22.00
Weight 40 lbs. Each.

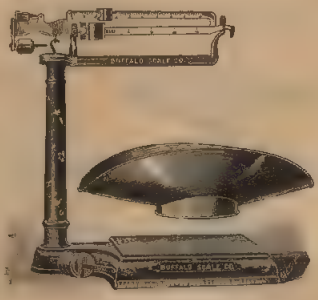


**Niagara Counter.**

Finished in Black and Gold, Nickel Plated Beams, Poises and Trig Loop, Upper Bar Graduated to Weigh 1 Oz. to 10 lbs., Lower Bar ¼ to 25 lbs., Platform 13¾x12¾ In., Height Over All 24 In.

Code Klimop — Each

No. 799—Capacity 255 lbs. x 1 Oz., with Large Seamless Brass Scoop, . . $27.00
Weight 95 lbs. Each.



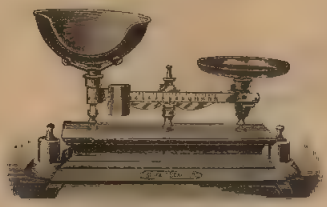
**Boston Grocers.**

Finished in Black and Gold, Nickel Plated Beam, Upper Bar Graduated to Weigh 10 lbs. by Ounces, Lower Bar 40 lbs. by Half Pounds. Platform 10x13½ In., Height Over All 25 In.

Code Klimstag — Each

No. 796—Capacity 250 lbs. x 1 Oz., with Large Seamless Brass Scoop, . . $25.00
Weight 75 lbs. Each.

# Scales.



**Buffalo, Confectioners.**

Elegantly Finished, Upper Parts Brass, Nickel Plated, Marbleized Base, Scoop will hold 3 Pounds of Candy.

Code K.inikum — Each

No. 694—Capacity ¼ Oz. to 3 lbs., with Side Beam, . . . . . $35.00
Weight 40 lbs. Each.

**Buffalo Candy.**

Code Klinkjes — Each

No. 697 Capacity ¼ Oz. to 2 lbs., with Round Pattern Brass Scoop, . . $8.00
Weight 15 lbs. Each.

**Buffalo Postal.**

Code Klipgest — Each

No. 502 Capacity ½ to 16 Oz., 32 Gram Weight, . . . . . $6.00
Weight 5 lbs. Each.

No. 100.

No. 200.

No. 300.

Code Klipmuis — Each

No. 100 Vienna Candy Scale, Capacity ½ Oz. to 4 lbs., Steel Case, Japanned, Nickel Plated, Brass Scoop and Trimmings, . . . . . $4.00
Weight 2¼ lbs. Each.

Code Klirrat

No. 200—Victor Postal Scale, Capacity ½ Oz. to 1½ lbs., Nickel Plated Case and Trimmings, 4¼ In. High, 4½ In. Wide, . . . . . 2.70
Weight 1 lb. Each.

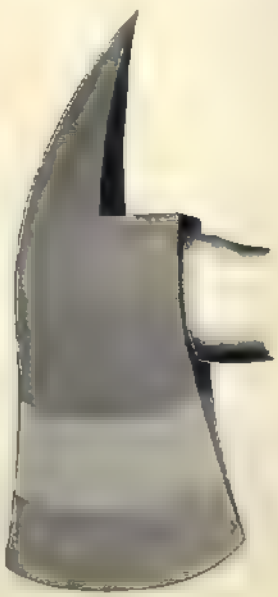
Code Klisklas

No. 300 U. S. Postal Scale, Capacity ½ Oz. to 4 lbs., Nickel Plated Case and Trimmings, 5½ In. High, 3⅜ In. Wide, . . . . . 3.30
Weight 1¾ lbs. Each.

# Butchers' Axes.

| | Per Dozen |
|---|---|
| No. 5—Extra Diamond Cast Steel, Red Finish, | $24 00 |

## Firemen's Axes.



| | Per Dozen |
|---|---|
| No. 25—Extra Quality Tool Steel, Gold Bronzed, Polished Bit and Poll, 36 in. Best Hickory Handle, Painted Red, | $25.00 |

## Ice Axes.

| | Per Dozen |
|---|---|
| No. 50—Extra Quality Cast Steel, Red Finish, 2½ in Round Edge Polished Bit, 30 in. Extra Hickory Handle. | $36.00 |

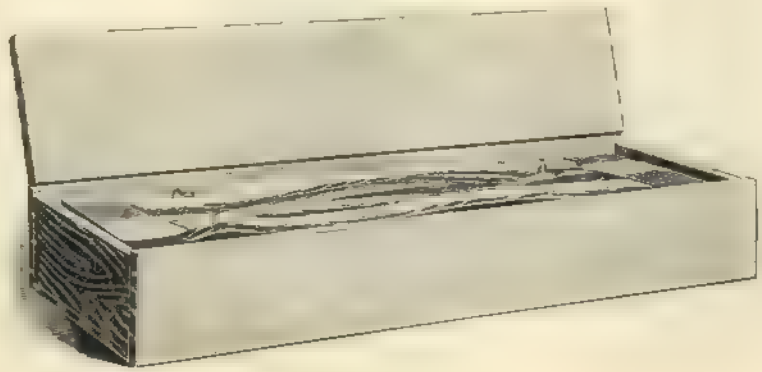
One Dozen in a Case.

# Men's Handled Axes.

| | Per Dozen |
|---|---|
| **Vulcan**—Extra Quality Tool Steel, Hand Made, Black Finish, with 4X36 in. Hand Shaved Second Growth Hickory Handle, | $14 00 |
| **Vulcan**—Extra Quality Tool Steel, Hand Made, Black Finish, with 6X36 in. Hand Shaved Second Growth Hickory Handle, | 15 00 |
| **Cream City**—Cast Steel, Gold Bronzed with 36 in. Extra Turned Hickory Handle, | 12.50 |
| **Americanax**—Solid Cast Steel, Extra Quality, Enameled Blue Bevel, with No 2 Turned Hickory Handle, | 13.00 |
| **Falls City**—Extra Quality Diamond Steel, Blue Bevel, with 36 in Extra Turned Hickory Handle | 14 00 |

Michigan and Yankee Patterns, Weights Assorted, 3½ to 4, 3½ to 4½, 3¾ to 4¾ Lbs

One Dozen in a Rack



| | Per Dozen |
|---|---|
| **Davies' Champion**—Diamond Steel, Gold Bronzed, with 4X36 in Hand Shaved Second Growth Hickory Handle, | $15.00 |
| **Davies' Champion**—Diamond Steel, Gold Bronzed, with 6X36 in Hand Shaved Second Growth Hickory Handle, | 16.00 |

Michigan and Yankee Patterns, Weights Assorted, 3½ to 4, 3½ to 4½, 3¾ to 4¾ Lbs.

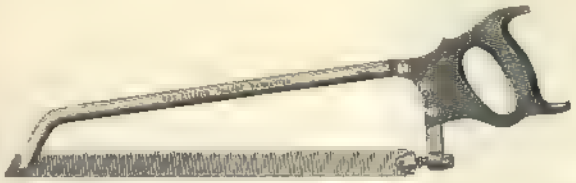
One Dozen in a Case.

# Butchers' Saws.

| | | | | | | |
|---|---|---|---|---|---|---|
| No. 7—Pritzlaff's Best, Flat Steel Back, Cast Steel Blade. | Inches, | 18 | 20 | 22 | 24 | 26 |
| | Per Dozen | $17 00 | 18 00 | 19.00 | 20.00 | 21.00 |

One-Third Dozen in a Box.

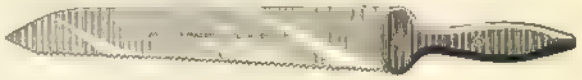
## Pork Packers' Saws.



| | Per Dozen. |
|---|---|
| No. 18—16 in., Disston's, Oval Back, Cast Steel Blade, | $15.00 |
| No. 18—18 in., Disston's, Oval Back, Cast Steel Blade. | 16.00 |

One-Third Dozen in a Box.

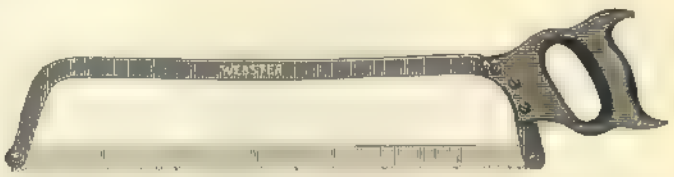
## Saw Knives.



| | Per Dozen. |
|---|---|
| No. 12—Adams', Cast Steel Blade. 12 in. Long. | $5.25 |

One Dozen in a Box.

## Kitchen Saws.

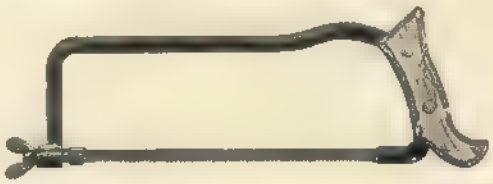



| | Per Dozen. |
|---|---|
| No. 0—14 in., Wilson's, Flat Steel Back. | $6 00 |
| No. 00—14 in., Adams', Oval Steel Back. | 5 50 |

| | Per Dozen. |
|---|---|
| No. 2—16 in. Webster's, Flat Steel Back, Blue Blade, | $10 00 |
| No. 4—20 in., Webster's, Flat Steel Back, Blue Blade, | 12.00 |

Half Dozen in a Box.

## Dehorning Saws.

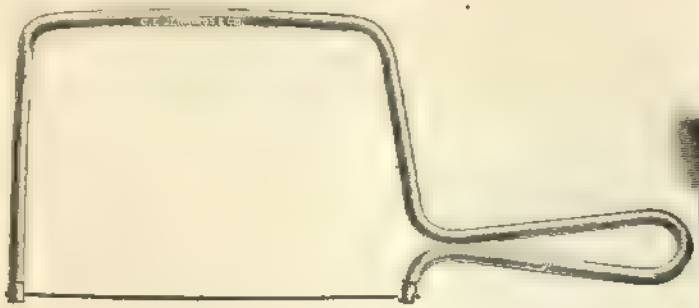


| | Per Dozen. |
|---|---|
| No. 3 Disston's, Round Steel Back, Cast Steel Blade, 12 in. Long, ⅛ in. Wide, | $6.00 |

| | Per Dozen. |
|---|---|
| No. 6—Disston's, Malleable Iron Frame, Cast Steel Blade, 10 in. Long, ⅛ in. Wide, | $10.00 |

Half Dozen in a Box

## Coping Saws.

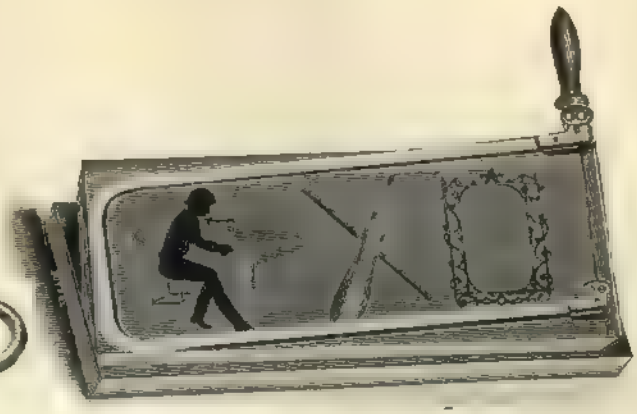


Per Dozen.

**No. 100** —Griffin's Adjustable Wire Frame, Nickel Plated, Depth of Cut 4 in. Complete with Blade, . . . . . $3.25

Extra Blades for Griffin's Coping Saws, . . . 20

## Bracket Saws.



Per Dozen Sets

**No. 2**—Millers Falls Nickel Plated Steel Frame, 5x12 in., with Rosewood Handle, 3 Sheets of Designs, 12 Saw Blades, 1 Awl, 1 Sheet of Impression Paper, and Full Directions for Using. . . . . $15.00

## Scroll Saws.

Each.

**No. 5** Cricket, Japanned Iron Frame, Japanned Tilting Table, . . . . . $2.50

Each.

**No. 1**—Rogers' Japanned Iron Frame Japanned Tilting Table, with 12 Saw Blades, 3 Drill Points, and Sheet of Designs, . . $3 50

**No. 2**—Rogers', Japanned Iron Frame, Nickel Plated Tilting Table, with 12 Saw Blades, 3 Drill Points, and Sheet of Designs, . 4.00

Another novelty shown was a light runabout by the Mitchell people. In this vehicle a two-cycle single cylinder motor is used placed horizontally on the left side of the vehicle, with the combustion chamber in the rear. Sliding gear gearing, giving two speeds forward and a reverse, is used, with a chain drive of the usual type from the motor shaft. Timken roller bearings [illegible] lies mostly in the motor, which the manufacturers claim will run from 140 to 1400 revolutions per minute. The motor governs by change of position of the spark and by throttling the charge. A sketch of the motor is shown below, in which A is the inclosed crank case, B is the water-jacketed cylinder, having

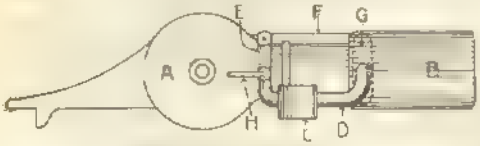



Fig. 1—Mitchell Cycle Motor.

a separate jacket cored in its forward end at G, from which air is drawn through the pipe D to the float feed carburetor C. The carburetor is connected to the crank case by the tube E, which contains a throttle valve H with which the volume of gas entering the crank case A is governed. The cored passage F allows the gas to pass [illegible] the spark plug A to the working cylinder B when the inlet port in B is opened or uncovered by the piston.

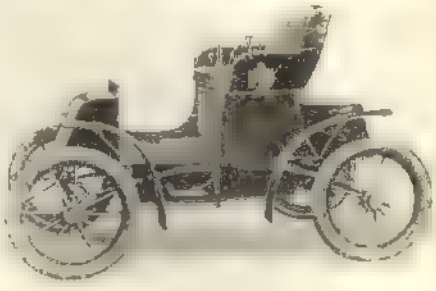
The [illegible] gear is oiled, through its hollow shaft, by the multiple oiler (placed on the dash, the [illegible] parts of the vehicle.

Wheel steering is used as well as a novel system of spring support. The whole vehicle shows evidence of considerable thought [illegible]

CHRAMWELL

## Columbia Electric Vehicles.

Electric Vehicle Company, Hartford, Conn., showed at Chicago an entirely new model in the shape of a very light electric runabout of 1000 pounds weight, listing at $800. The weight mentioned includes the battery. Both [illegible] are underslung [illegible] It has a low centre of gravity, giving steadiness and easy running. A reachless running gear is used and the body rests on long side springs. Three-point body suspension [illegible] all [illegible] springs. Four speeds

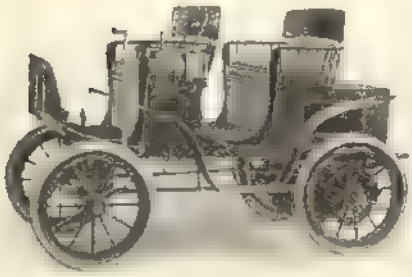


The Columbia Electric Runabout.

are provided, the minimum being 15 miles per hour. The brake is [illegible] by the controller handle, and the other is mechanically operated by a foot lever. The foot brake locking device shuts off the current so that power [illegible] until the brake is released. This vehicle is equipped with [illegible] and will run [illegible]

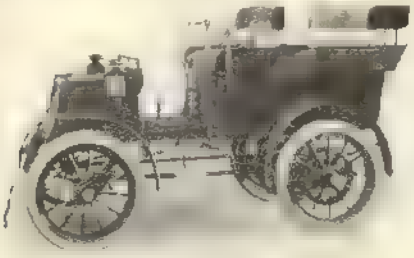
This company showed also the Columbia Electric Surrey, Victoria and Tonneau. The latest model surrey has side lever steering. The regular brake operates on the driving

Exhibit of the Electric Vehicle Company, Hartford, Conn.—Columbia Electric Runabout Vehicle



The Columbia [illegible]

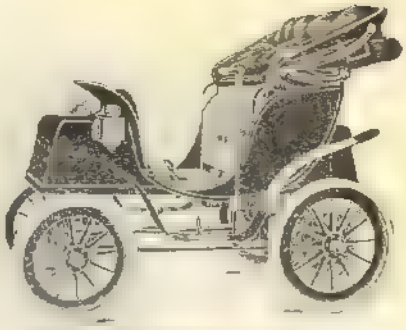
gear and the emergency [illegible]. It has a double motor equipment, giving three speeds forward or backward, the latter [illegible] ing 14 miles per hour. It has wooden wheels shod with three-inch solid tires at the rear,



The Columbia Electric Victoria.

and three inch pneumatics on front. The battery will run 40 miles on a charge. Price is $1500. Canopy top and side curtains, $100 extra.

In the 1903 Victoria they have substituted



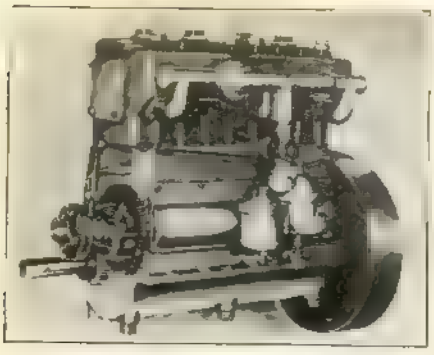
The [illegible] Victoria.

noiseless herringbone gears for the spur gears formerly used. This model has wood wheels and pneumatic tires. The motor equipment gives three forward speeds and two reverses. Radius, 40 miles. Price, without hood, is $1500; with hood, $1600.

## National Gasoline Motors and Cars

The National Automobile and Motor Co., 181 and 183 Second street, Milwaukee, Wis., exhibited a light touring car with 8 H. P. double-cylinder vertical motor, listing with tonneau at $1450, or without tonneau at $1250. This car will be found on the left of our illustration of the [illegible] and on the [illegible] is the 10 H. P. double cylinder engine touring car. This car was shown with tonneau seats, but is also furnished with a rear [illegible] seat. The tonneau and surrey attach-

[illegible] of the National Automobile & Motor Co., Milwaukee, Wis.



4-Cylinder 16 H. P. National Gasoline Motor

models are interchangeable—both carry five passengers, the tonneau having a removable section on the dash. This car lists at $2500. The engines used in these cars are their own production and are sold to the trade separately if desired. The 4-cylinder 16 H. P. engine weighs 350 pounds. Each cylinder 4 inch bore and 5 inch stroke, its normal speed is 800 R. P. M. minimum, 150; maximum, 1500. Its list price is $500. The cylinders and water jacket, are gray iron and cast in one piece. The crank chambers and base are aluminum. The 2-cylinder 8 H. P. motor has same speed and same bore and stroke and weighs 250 pounds; list $350.

Ignition is by jump spark and the spark plug is so placed that each fresh charge of gasoline and water tanks have a capacity for [illegible] preventing foaming. Valves are mechanically operated, and the speed of engine is regulated by a controller, making a material saving in gasoline consumed. The carburetor is of their own make and the muffler is furnished with a cut-out; wheel steering, gasoline and water tanks have a capacity for 150 to 200 miles. Transmission is by sliding gear, three speeds forward and a reverse, direct drive on the high speed (gears in use and running in oil), to a bevel gear drive on rear axle. This latter is one of the principal mechanical features of the car, a bearing on each side of the pinion and a roller back of gear wheel prevents wheel and pinion from pulling apart.

The 16 H. P. car has 86-inch wheel base, 52-inch tread and 32 inch artillery wheels.

The 8 H. P. car has 72 inch wheel base, 52 inch tread and 30 inch artillery wheels.

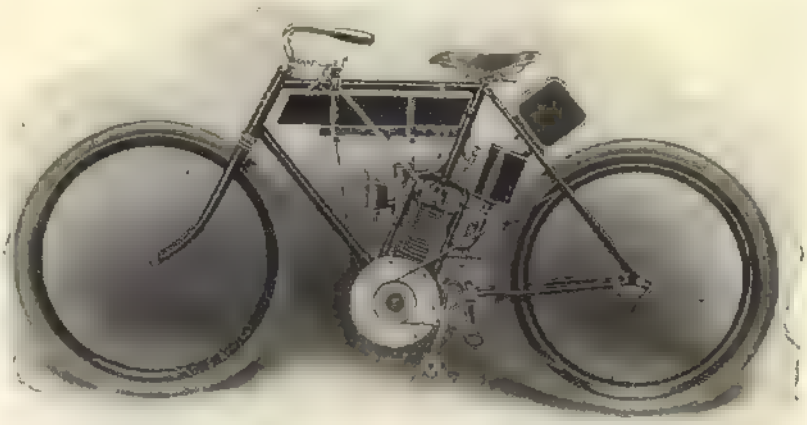
## Locomobiles

The Locomobile Company of America, 7 East Forty-second street, New York, exhibited nine steam cars, a larger number than they exhibited at New York; also three of their gasoline cars. They report a large increase in the business on their steam vehicles in the West.

## The Regas Runabout

Regas Vehicle Co., 80 West Main street, Rochester, N. Y., have started out with a runabout illustrated herewith. It is fitted with a 4x5 air cooled gasoline engine, giving 7 H. P. at 1000 R. P. M. The engine is mounted in front under the hood, which is of special form and is perforated in front and on the sides. The transmission gives two forward speeds and reverse, the highest being 30 miles per hour. Wheel steering is employed and all controlling levers are located on the steering column. The engine is not connected to the body and it is claimed that there is an entire absence of vibration. The wheel base is 6 feet, and the carriage weighs 650 pounds.

The Regas Runabout



# HOLLEY MOTOR BICYCLE

## 1903 Model

## 2¼ H. P. PRICE, $225.00

OUR 1902 MODEL MOTOR BICYCLE gave such universal satisfaction to hundreds of agents throughout the United States and Europe that we have decided to make little or no change except in price, as our cost sheets proved to us last year that our machine could not receive our standard of material and workmanship and sell at less than this price. The genuine LONGUEMARE CARBURETTOR will be added, and several other refinements of construction.

Anyone familiar with the motor bicycle game will acknowledge that the HOLLEY MOTOR BICYCLE was the only successful motor cycle on the market in 1902. It is also acknowledged that we were the first Company to make the motor a part of the frame, which construction has since been copied by nearly all of our competitors.

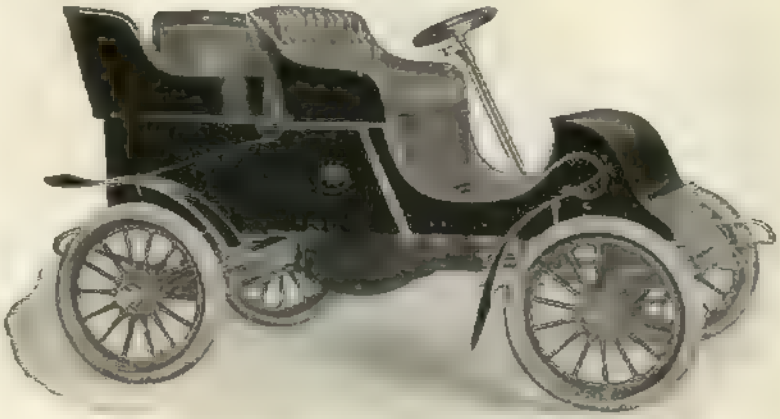
**You may also have noticed** another feature of the 1902 HOLLEY which is incorporated in the 1903 model by another manufacturer. The number of machines which we will turn out this year will be necessarily limited as we have booked contracts for 1000 automobile motors and 1000 LONGUEMARE CARBURETTORS with prospects of several hundred more.

A 74 ft. brick addition is being built on our factory as fast as men and money can push the work.

## HOLLEY MOTOR CO.

### 12 Holley Avenue, - Bradford, Pa.

# CADILLAC



## Just Good All Over Runabout

## $750

## Runabout with Detachable Tonneau

## $850

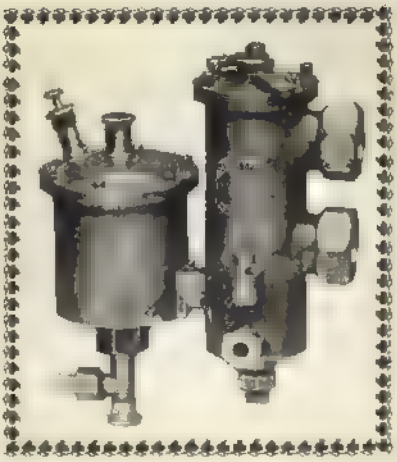
WHAT YOU HAVE BEEN WAITING FOR

## Cadillac Automobile Co.

DETROIT, MICH.

W. E. METZGAR, Sales Manager

# Longuemare Carburettor



***At the New York and Chicago Shows there were more Longuemare Carburettors shown on cars of reliable make than all other carburettors combined***

THIS Carburettor is manufactured on special tools and every part is guaranteed to be interchangeable and it is assembled by a force of experts. We could not afford such expensive hand fitting unless these did we not sell them in very large numbers. They are tested with benzine assembled and are also tested on an engine before shipment. They have been on the market over five years, and over 10,000 have been especially in Europe, where they are used by such manufacturers as Ader, Renault, Darracq, Peugeot, Panhard, Corre, Decauville, Brasier, La Compagnie, Francaise, Pilleschamps and Pieper.

Among our American customers are the George N. Pierce Co., American Motor Carriage Co., Pope-Robinson Co., Conrad Motor Carriage Co., Hoffman Automobile & Mfg. Co., Crest Mfg. Co., B. V. Covert & Co., Kensington Automobile Mfg. Co. and scores of smaller manufacturers.

We are prepared to guarantee results, deliveries, and to quote interesting prices.

## HOLLEY MOTOR CO.

**12 Holley Avenue, - Bradford, Pa.**

proper working of the other. In addition to this large machine, which sells for $2500, the company makes a dos-a-dos at $1500 and a runabout at $1000.

## The Russell Gasoline Car

C. W. Russell, Springfield, Ohio, exhibited his gasoline car, which has been recently placed on the market. It is a medium-weight car of runabout pattern, but a tonneau can be attached if desired. The dashboard cabinet is divided into two compartments; one contains the water tank and the other the dynamo, battery and coil. These are all in plain view of the operator, through a glass panel in the dash. The body can be removed by taking out six bolts.

The main frame, which holds the motor and mechanism, is of rectangular steel tube 1½x2 inches and ⅛ of an inch thick, the cross bars being laid by angle corner pieces. There is a centre truss rod. The rear axle is live and is mounted on four Ameican roller bearings. Thirty four inch wire wheels and 3½-inch Goodrich clincher double-tube tires are used regularly, but wood wheels can be had if desired.

The motor is of the horizontal, single cylinder, four-cycle type, developing 9 B. H. P. at maximum speed, being 950 R. P. M. The cylinder and lower half of the crank case are one casting, an aluminum cover completing the crank case. The water jacket is of copper. The combustion chamber is a separate casting and attached to the cylinder by four nuts and studs. A rotary pump solidly mounted on the 2-to-1 shaft keeps the water in circulation. The radiator is hung in front from the main frame and consists of 24 light copper tubes, on which are 2-inch copper corrugated discs ⅜-inch apart. These tubes are soldered in a light brass head plate. The gasoline tank is placed in the rear of the body and contains enough for 150 to 250 miles' running.

A planetary transmission gives two forward speeds and reverse, the drive being direct on the high speed. The speeds are from 3 to 30 miles per hour. All speeds are controlled by one lever. Three brakes are provided.

## The Wagner Motor Cycle

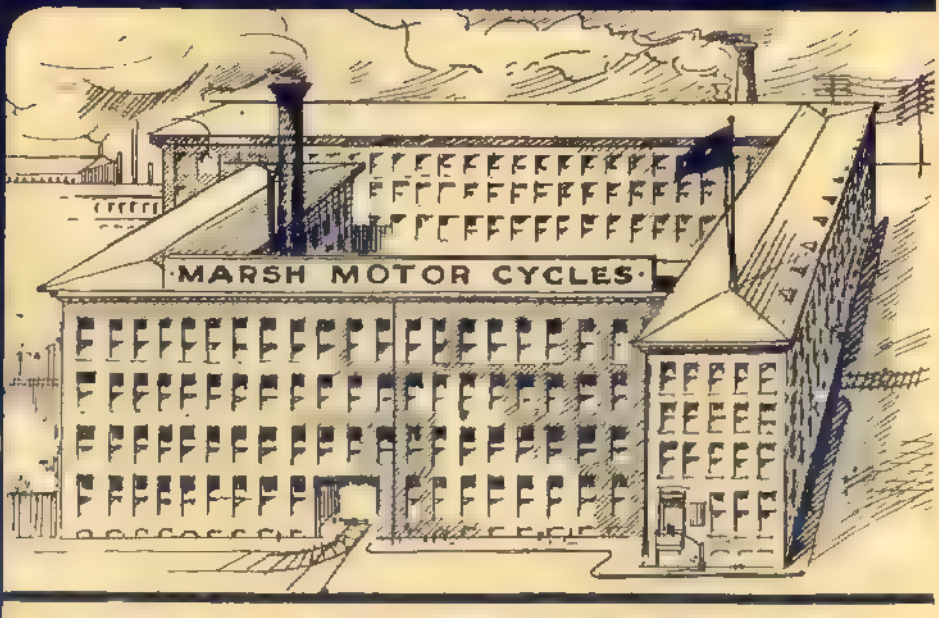
Wagner Cycle Company, 1143 West Fourth street, St. Paul, Minn., exhibited their motor cycle for the first time. This machine has been described in these columns before, but a review of its principal features will not be amiss. The frame and fork construction are patented. The frame is practically a diamond frame, with an extra large diameter tube for the motor. This large tube serves the purpose of conveying the exhaust to the muffler. The fork consists of an outer and an inner fork, both acting at the same angle.

The motor is 2½ H. P., and because of its position in the frame the clothing of the operator cannot come in contact with it. It has deep radiating flanges and the plug is in the centre of the head. The exhaust lift and the spark are controlled by one lever.

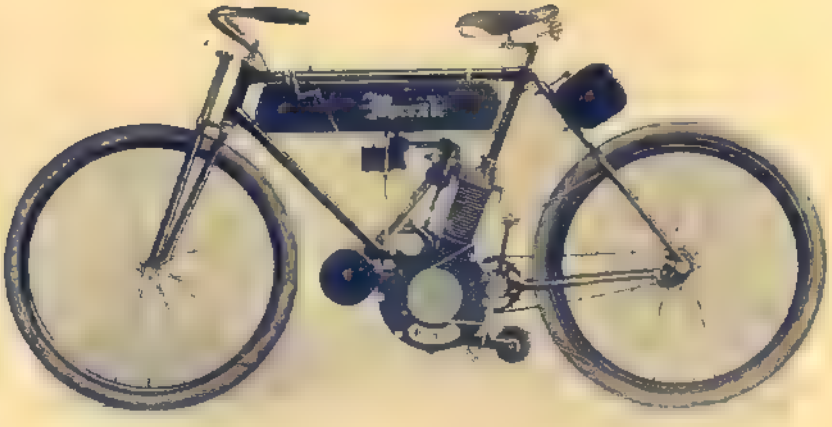
The gasoline tank holds 1 1-3 gallons, which is sufficient for 100 miles running. The oil tank holds half a gallon, which will run the motor 400 to 500 miles. The bicycle lists at $200. They are also manufacturing a tandem, which they list at $225. In the latter all operations are controlled from the front seat, so that the machine can be ridden single or double, as desired. The equipment of the Wagner Motor Cycle includes the "World's Record" carburetor, the Corbin motor-coaster brake, the Berkey spring seat post, Ideal handle bar and Columbia ignition cells.

For the purpose of better cooling of the motor the flanges are made deeper at the top and the intake and exhaust valves are placed together. These valves are so close together that should the intake valve stick the opening of the exhaust valve will close it. The spark plug is placed in the centre of top of head in a cool place and where it is almost impossible to be fouled. It is also more sightly in this position. The motor will exhaust under oil without fouling the plug if the motor should accidentally be flooded with it.

The Wagner Motor Tandem

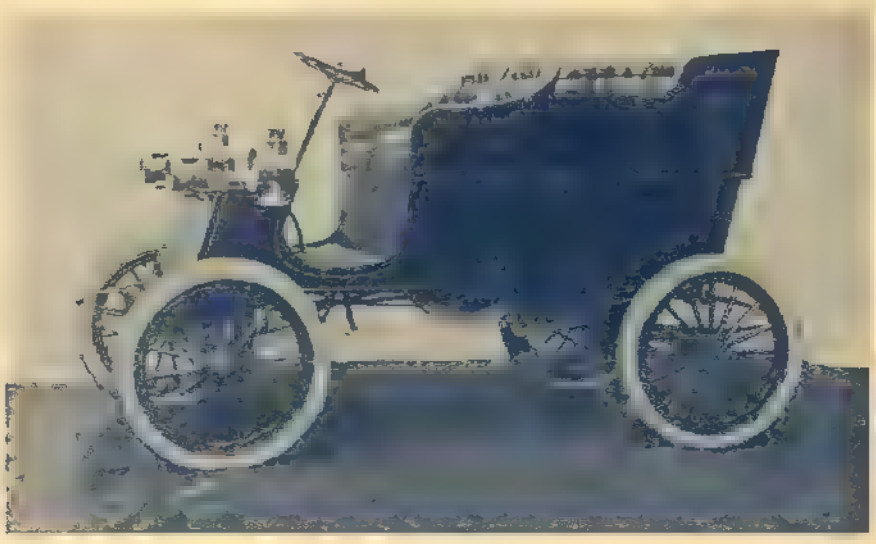



# MARSH



# FREDONIA

## For Daily Use



GUARANTEED 9 H. P.

**WEIGHT, 1450 Lbs. all on. PRICE, $1250**

**Winner of President's Cup in New York to Boston Reliability Run.**

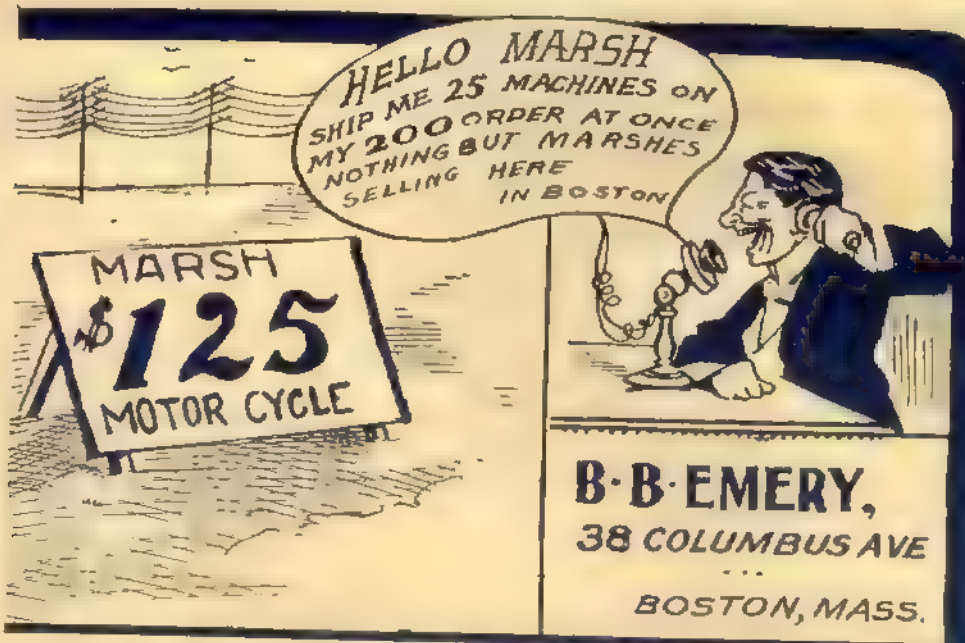
AGENTS looking for a money maker had better get in line. This is the machine that was the sensation of the Chicago Show, the engine running inside the building for 11 hours daily during the entire week. **SIMPLICITY, RELIABILITY and STRENGTH** are our features. Send us your name for descriptive matter.

# FREDONIA

## For Daily Use

# THE FREDONIA MFG. CO.

## Youngstown, Ohio, U. S. A.




B·B·EMERY,
38 COLUMBUS AVE
...
BOSTON, MASS.

# MOTOR CYCLES

WERE ORDERED IN LOTS OF **50** AT A TIME AT THE CHICAGO SHOW THERE ARE ONLY A FEW TOWNS LEFT IF YOU LIVE IN ONE OF THEM BE QUICK IF YOU WANT THE AGENCY

**MOTOR CYCLE MFG CO..**

**BROCKTON, MASS.**

## The "JERSEY" Carburettor

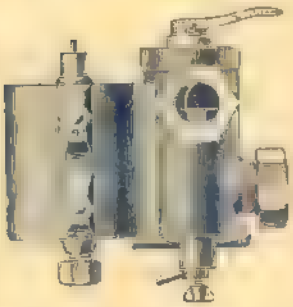
**Aluminum $15.** **Brass $12.**

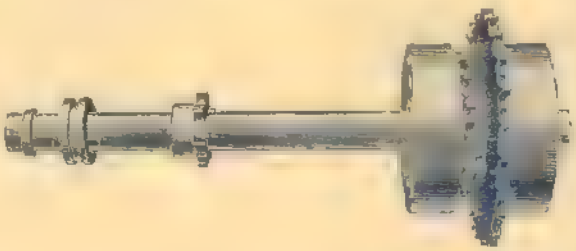
The price and value of the Carburettor suits the operation. The "Jersey" can always be depended upon under all conditions. It is constructed right and the workmanship is first class. Write for further information.

## CONDON'S 2-Speed Transmission

**2 speeds $55. 2 speeds and reverse $65**

This is a practical durable and inexpensive Transmission for motor cycles, tricycles, quadricycles and runabouts. You will want it if you know more about it.
Write for full particulars.





## Canda Quadricycle, - - $195.00

It is equipped with a 2½ H. P. Motor, 26 x 2½ carriage tires, and is up-to-date in every respect. [illegible] and will make a speed from [illegible] miles per hour.

Deposit of 25 per cent with all orders, balance C. O. D.

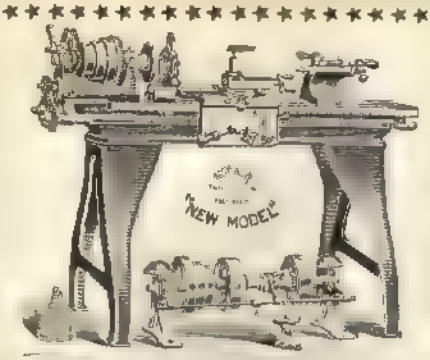
[illegible] CONDON'S ROLLER TUBE EXPANDERS [illegible] made of tool steel [illegible] Price to the trade $[illegible] Special [illegible] Cash must accompany all orders.

## GEO. W. CONDON

**Manufacturer of Automobile Specialties**

**283-285 Halsey Street**

**NEWARK, - - NEW JERSEY**




FOOT AND POWER

## "Star" Lathes

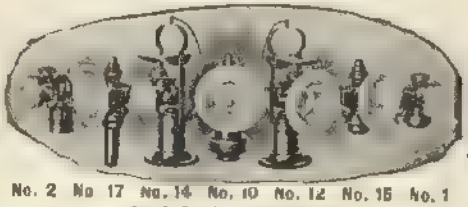
re[illegible] large [illegible] with special ma[illegible] the minimum con[illegible] first-class work

Every "Star" Lathe is carefully tested so that we can confidently guarantee satisfaction and will pay all transportation charges, both ways, if after ten days' trial you prefer your [illegible]

9 and 11 inch "Star" Foot Lathes
9 11 and 13 inch "Star" Power Lathes
Send for Catalog "B"

THE SENECA FALLS MFG. CO.
416 Water Street '61
Seneca Falls, N. Y., U. S. A.

20th Century Cycle, Motor Cycle Driving, Boat and AUTOMOBILE OIL & GAS LIGHTS



No. 2 No 17 No. 14 No. 10 No. 12 No. 15 No. 1
Send for 1905 Catalogue

No. 19, 21, 23 25 — 20th CENTURY MFG. CO., 27 WARREN ST., NEW YORK — Nos. 22 and 24

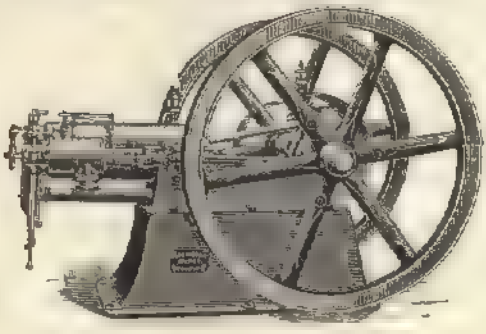
## UNION GRINDING MACHINES

Indispensable for small shops, farm and family use. All tools easily and quickly ground, adapted to anything from a pen-knife to an axe.

**No. 1—one wheel, $4.50**
**No. 2—two wheels, $6.00—coarse and fine.**
**No. 3 double wheel, treadle for both feet. Built strong with heavy balance wheel, $18.00**

SPECIAL OFFER for [illegible] days. Sample prepaid to any [illegible] on receipt of price, unless dissatisfied to the trade

Union Mfg. & Specialty Co.
185 Pratt St. Buffalo, N. Y.



## A GOOD MIXER

The absolute uniformity of the charges, and the mechanical simplicity in the construction of the mixer on an

**Olds Gas and Gasoline Engine**

is an important point for buyers to consider. Full information about [illegible] our stationary and portable engines can be obtained by writing for our illustrated catalogue.

OLDS MOTOR WORKS
Dept. 7 Detroit, Mich.

# 4 H. P. AIR-COOLED MOTORS

*Aluminum Crank Cases, Copper Flanges,*
*3½ inch bore, 4 inch stroke, $125.00 list*

Liberal discount to the trade

Suitable for a light runabout or pacing machine.

HARRY R. GEER, The Motor-Cycle Man
**1017 Pine Street, - - - ST. LOUIS, MO.**

# The SANDUSKY

**The Business Man's Friend**
**Always Ready to Go**

**A Neat, Light Runabout** built for **American roads.** **Mud, Sand and Hills** shrink before it.

A model of simplicity. **Quiet, Safe, Powerful** and **Economical.** The carriage we sold has been on the road for **Three Years,** and therefore is no experiment. We are now prepared to put them on the market, and respectfully invite your correspondence.

Agents wanted. Write for prices and special proposition

**THE SANDUSKY AUTOMOBILE CO.**
**Sandusky, Ohio, U. S. A.**

# SOMETHING IN A NAME

## "Never Miss"

French and American Thread

That describes it.

***This*** plug keeps busy ***all*** the time, at some one point, or all—***usually all points***

You can rely on it

Send back if it don't fill the bill.

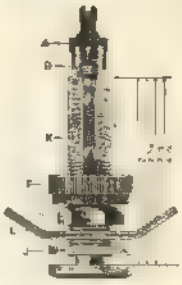
**$2.50 each.** Discount to dealers

**E. E. CLARK & CO.**
**Canton, Ohio.**

# SCHRADER UNIVERSAL VALVE

**Trademark Registered April**

***Simple and Absolutely Air Tight***



**MOTOR TIRE VALVES,** as shown in cut, are made in four lengths as shown Cut is exactly half size of the 2 in. valve.

Supplied to the trade by all Tire Manufacturers.

**Manufactured by A. SHRADER'S SON**
**30-32 Rose St., New York**

## The 1903 Mayo Motor Cycle

Mayo Damper Company, Pottstown, Pa., are now out with their 1903 motor cycle. It lists at $175, and is fitted with a 2 H. P. Mayo motor. This motor cycle has been fully described heretofore, and it will be noted from our illustration that it has been refined in some details, but has not been materially

The 1903 Mayo Motor Cycle

changed. The motor is carried higher in the frame and lies parallel to the tube running from hanger to head. The motor is sold separately and is easily attached to an ordinary bicycle. They also offer other sizes, including 3x3, 3½x3½ and 4x4 cylinders. The bicycle size is 2¾x3 inches. These are all air-cooled and can be had complete or in castings.

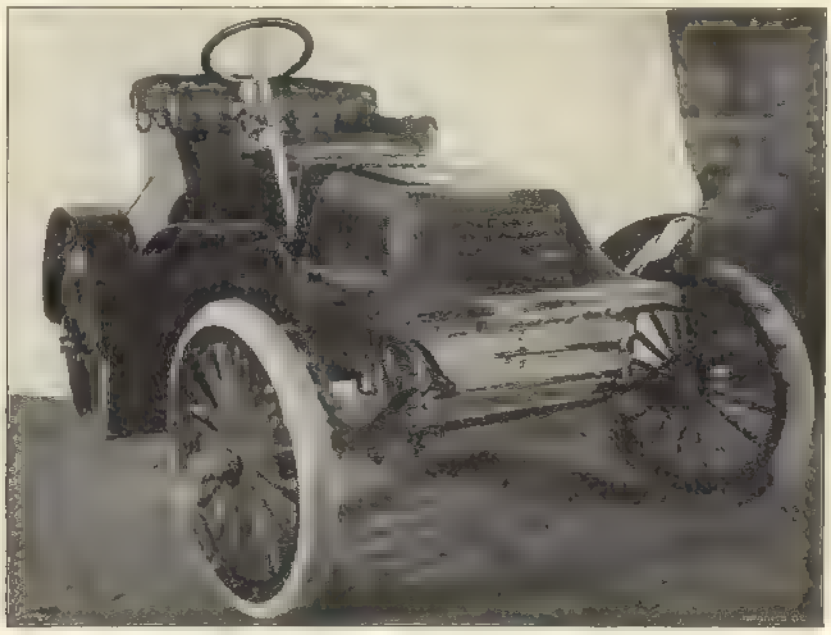
## The Greeley Gasoline Car

E. N. Miller, of Greeley, Col., has perfected the gasoline car shown herewith and is ready to take orders. An 8 H. P. 4-cylinder motor is mounted midway between the axles. All bearings are in dust proof cases and run in oil. Two forward speeds and reverse are obtainable, the highest being 30 miles per hour. The forward speeds are controlled by a lever at the end of the seat, and the reverse by a foot lever. The engine speed is regulated by a push button near the dash, operated by the right foot. On the high speed the drive is direct from the motor shaft to the compensating gear, leaving all gears idle. The brake acts on the compensating gear, and is put in play by means of a lever under the left foot.

Positive wheel steering is employed. The wheel base is 5 ft. 4 in.; length over all, 8 ft 6 in.; weight, 1345 lbs. Sarven Patent Wood wheels are used, shod with 3x32-inch pneumatic tires. The front wheels run on roller bearings. The rear axle turns on roller bearings; runs the full width of the machine through a sleeve. The gear is finished in carmine and the body in Brewster green with carmine panels. The upholstering is in leather.

The tanks each hold 10 gallons. The radiating coil is hung in front and a pump maintains circulation. Both tanks are carried under the hood in front. The batteries and coils are carried under the seat, which leaves ample room in the rear of the body for luggage or parcels. Price of the car is $1200.

W. L. Hibbard, formerly with the Locomobile Company and well known as an automobile racing man, has accepted a position with the Studebaker Company, of South Bend, Ind., and will hereafter look after the automobile department of the company's Chicago branch. As a racing man for the Locomobile Company Mr. Hibbard has held the one-mile and two-mile records and won many cups.



The Greeley Gasoline Car

## The Coleman Motor Cycle

H. P. Coleman, 46 Hancock street, Boston Mass., has made several improvements on his motor cycle, and we illustrate herewith the improved machine. The motor is placed low in the frame, with the cylinder extending along the lower tube. This brings the head in an excellent position to catch the air currents. It is claimed by the manufacturer that this position also lessens vibration because of the direction of the impulse given the motor. The projecting flanges form a continuous spiral passageway and the cylinder is the same thickness its entire length which permits its being lighter and thinner than usual.

The bore and stroke are respectively 2 11 16 and 3¼ inches. The motor gives 2 H. P. The fly-wheels and main shaft are all in one piece and of steel. The bearings are ⅞-inch

The Coleman Motor Cycle

diameter by 1¾ inches long and have phosphor bronze bushings. An aluminum crank case is used. A 1-inch flat belt transmits the power and it runs over a spring idler. The front fork is trussed. Extra large valves are used. A single lever relieves the compression, advances the spark and throttles the mixture. Sufficient fuel and oil for 80 miles' running are carried. The total weight is 118 pounds, and the price $135. Any part may be bought separately.

Mr. Coleman is also offering a good novelty in the shape of a cleansing paste called "Tisa fine" Hand Paste. This is made of pure vegetable oils, and is very effective for cleaning the skin, or it may be used on metal parts of a machine. A free sample will be sent to any one upon request.

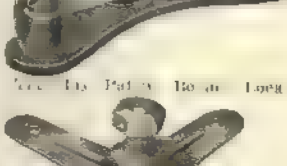
## Ray Bonnets and Sundries

The Ray Automatic Machine Co., 9 Water street, Cleveland, Ohio, are manufacturing a number of metal specialties for the automobile trade, including bonnets, radiators, mufflers, tanks and other articles, some of which are herewith illustrated. Their bonnets or hoods are made in various styles, including the Mercedes type, and they are turning out high-

The Ray Engine Bonnet

grade goods. Their trade is not limited to this country, but they are supplying foreign manufacturers as well. The Ray hoods and fenders are made of steel, brass and aluminum steel. The latter is a new product of their own construction. It consists of a sheet

The Ray Patent Fender Fastener



The Ray Patent Fender Fastener

of steel between two sheets of aluminum. This form of construction gives great strength and stiffness, combined with the very desirable quality of lightness. Another advantage claimed for it is avoidance of rust. The cost, however, is not materially greater than the usual all steel construction.

Their hood lock is an ingenious and effective device which holds the hood tightly and prevents rattling. The construction is quite simple but, nevertheless, it fills the bill thoroughly. It will be noted that a small band spring keeps it from shaking loose.

Their fenders are made of both steel and aluminum steel and are being used by a number of large manufacturers. These fenders are held by a patent fastening, which has been proved proof against getting loose from vibration. The ease with which the fenders can be put on or taken off is another commendable feature.

It is said to be a fact that 90 per cent. of breakdowns are the result of nuts working loose and the nut lock washer which the Ray Company are turning out will no doubt interest the trade. This washer is quickly and easily put on, and because of its efficiency is meeting with great favor. It is a necessity in all mechanical trades.

# Century Tourist

## 7 H. P. GASOLINE CAR

Standard Car... $750 For Two People

With Dos-a-Dos Seat $800 For Four People

*If Orders Prove Popularity*
*THE CENTURY TOURIST*
*Is Certainly "IT"*

Elegantly designed and finished—and best of all, it will run anywhere anytime, and won't fall to pieces on the road.

The Most for the Money Ever Offered in an Automobile

IS THE UNIVERSAL OPINION OF ALL

Catalogue mailed upon request

## CENTURY MOTOR VEHICLE CO. SYRACUSE, N. Y. U. S. A.

AGENCIES

*New York City Banker Bros. Co.*
*Philadelphia—Banker Bros. Co*
*Pittsburg—Banker Bros. Co.*
*Brooklyn Lewis Automobile Co.*
*Providence, R. I. H. G. Martin & Co.*
*Buffalo—J. A. Cramer & Co.*
*Asbury Park—A. A. Taylor Co.*
*London, Eng R Reynolds Jackson & Co*

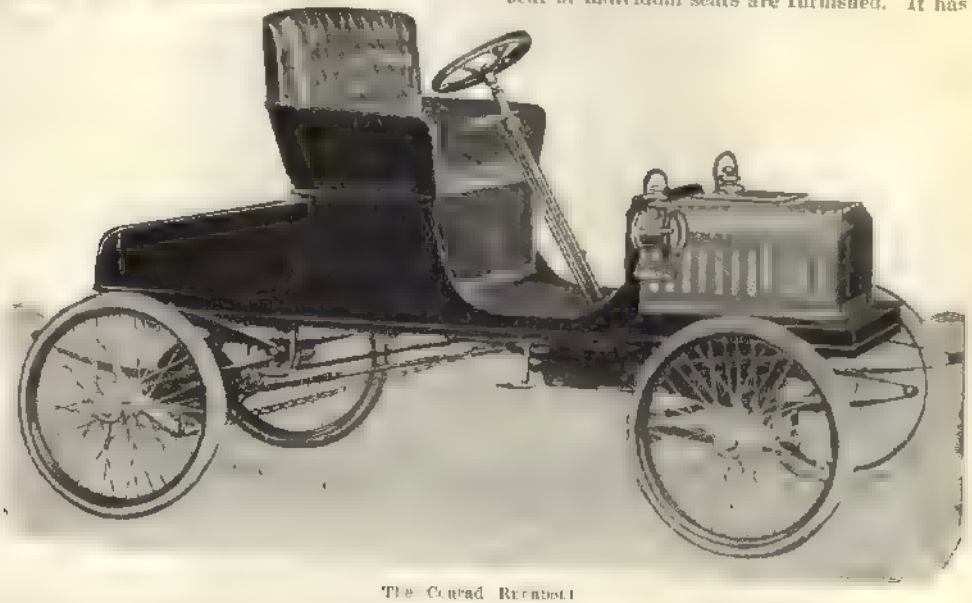
ute. It is 3½ inches by 4 inches. The rear hub is fitted with a Corbin Duplex New Departure coaster brake.

## Conrad Gasoline Cars

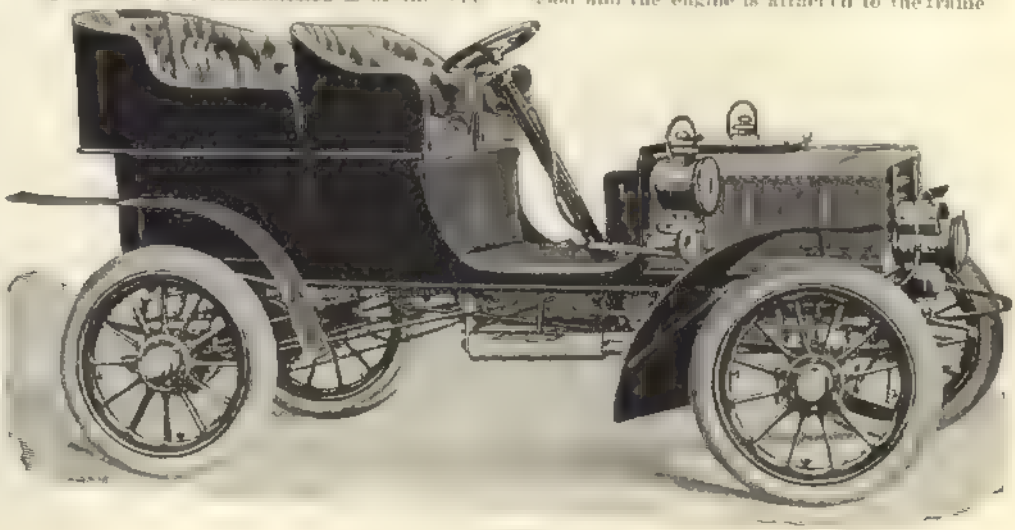
The Conrad Motor Carriage Co., 1413-19 Niagara street, Buffalo, N. Y., repeat at their New York exhibit at Chicago. They exhibited a gasoline touring car and a gasoline runabout with disappearing seat. These we were unable to illustrate in our last issue, and are pleased to present illustrations of them in this issue.

The runabout has an 8 H. P. water-cooled engine consisting of two cylinders, each 3½ x 3½ inches. The transmission is of the sliding gear type and gives three forward speeds and one reverse. The cone clutch in fly-wheel is of aluminum bronze, with leather running surface. The engine and transmission are inclosed in oil-tight aluminum casings. Ignition is by make and break, with coil and two batteries consisting of 4 dry cells each.

The touring car has a 12 H. P. two-cylinder engine, water-cooled, and has a three-speed sliding gear transmission. Either a full front seat or individual seats are furnished. It has a detachable tonneau with door extending to the top of the seat. When detached it is replaced by a hood which is furnished for the purpose. In both models the radiating coils and water tanks are placed in front under the hood and the engine is attached to the frame



The Conrad Runabout.



The Conrad Touring Car.

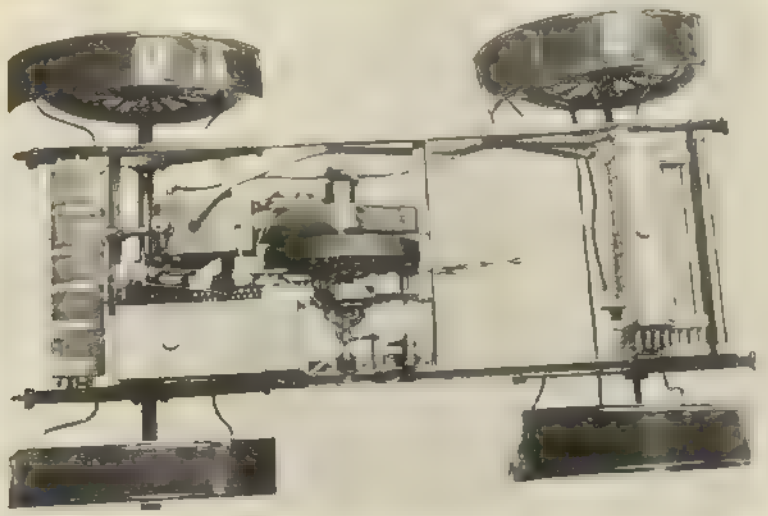
## The American Gasoline Car

The American Motor Carriage Co., 514 East Prospect street, Cleveland, Ohio, showed their runabout, which was described on page 64 of our December (1902) issue.

The single cylinder motor, water cooled, of

## Cleveland Cars

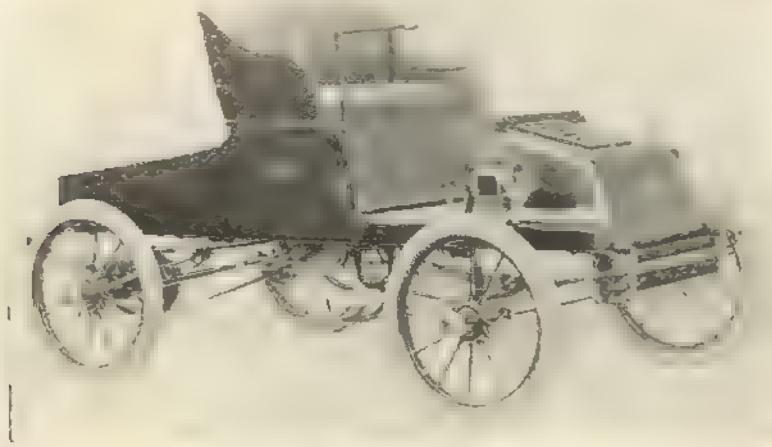
The Cleveland Automobile Company, of Cleveland, O., had a very large exhibit, showing several cars. Their runabout was a 6-foot wheel base car, standard tread. It is equipped with 28-inch artillery wheels and 2½-inch



[illegible] gasoline runabout made by American Motor Carriage Co., 514 East Prospect street, Cleveland, O. Motor [illegible] cylinder, 4-cycle type. Body [illegible] adaptation of the Stanhope, [illegible] seat forward [illegible] reverse at front. Driven by [illegible] Steering wheel [illegible] wheel. Bearings phosphor bronze and oiled [illegible] Spark automatically controlled by governor. Water tank and radiator in [illegible] Fuel and water capacity 175 miles. Price, $1,00[illegible]

the two-cycle type, is of simple construction, has few moving wearing surfaces and develops 7 H. P. [illegible]

detachable tires. Seat is 41 inches wide and the body rests on semi-elliptic springs, supported by an angle iron frame, and live, solid rear axle is used. Front axle is tubular and



[illegible] Roadster

with the car standing, and the boiler fed by the hand pump.

The main purposes of the trials were to ascertain the relative evaporation power of the same boiler with the two very different kinds of fuel and I shall not enter, therefore, into matters concerning the relative structural features of the burners, their durability, or the cleanness of the fuels, or time and materials required to [illegible] steam, but it may be remarked that, after the coil, tubular boiler and firebox were hot, combustion of the oil was without smoke.

The run with the petrol burner in use was made without any noteworthy incident, the burner behaving uniformly well. The driver was an expert, careful with regard to the maintenance of a sufficient water level, the dryness of his steam, and judicious observance of the requirements of uphill running and uses of down hill.

On the trials with the "hydroleum" burner the driver was skilled in its use, but not sufficiently so on the road to avoid occasional excess in water level and consequent wetness of steam passed to the burner.

In the evaporation tests with the car standing, similar conditions as to feed-water temperature and feeding were observed. The records were commenced after evaporative [illegible] had been [illegible] usual, a two hours' test [illegible] sufficient for so very small a boiler.

The results of the four trials are given herewith in tabulated form.

If the "hydroleum" burner had not been extinguished four times during the run from Godstone to Wilsden, as a result it must be assumed of the priming of the boiler, too high a level of water, or, at any rate, wet steam to the burner, a higher rate of evaporation per pound of oil would no doubt have been obtained when running.

Reduced to one brief statement, the evaporation by the two fuels may be taken as follows, in gallons of water evaporated per gallon of fuel with a feed temperature of 48 degrees:

Petroleum spirit burner..... 7.71
"Hydroleum" burner ..... 8.81

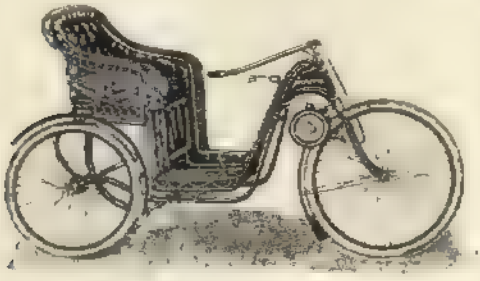
This does not include the kerosene burned in the pilot lamp or spirit used in getting up steam.

RECORD OF THE PETROL AND HYDROLEUM TESTS.

| | Distance run—miles | Time running—h m | Water evaporated—gallons | Water evaporated—lbs. | Fuel consumed—lbs. | Fuel consumed—gallons | Water evaporated per gallon of fuel | Water evaporated per lb. of fuel | Equivalent evaporation from and at 212° Fahr. | Specific gravity of fuel. | Cost per mile for petroleum spirit—pence | Cost per mile for Texas oil—pence |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Petrol trial on road ..... | 58 | 3 55 | 31 0 | 310 | [illegible] | 24 | 8.86 | 12.9 | 15.8 | .695 | 0.84d | |
| Petrol trial car standing..... | | 2 0 | 18 2 | 182 | 2 78 | 19 | 6.56 | 9.6 | 11.5 | | | |
| Hydroleum trial on road..... | 52 | 4 0 | 36 [illegible] | [illegible] | [illegible] | 37.4 | 8.53 | 9.7 | 11.88 | .928 | | 0.155d |
| Hydroleum trial car standing. | | 2 0 | 19 | 190 | 2 [illegible] | 19 4 | 9 ? | 9 9 | 11 92 | | | |

## A Light 3-Wheel English Car

A novel light car has been brought out in England by B. E. Dickinson, of the Toledo Engineering Works, Birmingham. This little car consists of a wicker carriage seat, swung on a motor tricycle, and is capable of a speed of 12 miles per hour. The engine is started by pulling towards the operator a lever situated below the steering lever. The front



The Dickinson "Morette" (English.)

wheel is 28x1¾ inches, and the rear wheels are 26 inches. The motor is a two-cycle valveless gasoline engine, and it drives the front wheel by means of a rubber-covered wheel on the inner side of the fly-wheel, and in contact with the tire of the front wheel. The engine is carried by a bracket attached to the rear of the fork crown. The gasoline tank is over the engine, and holds enough fuel for 70 miles' running. The engine is started by electric current, but afterward the catalytic ignition system is depended upon.

The steering handle is also used to control the motor. By pressing it down the motor is brought into closer contact with the front tire, and can be stopped, the pressure acting as a brake, both on the engine and the wheel. By raising the tiller the motor is freed from contact with the wheel. For emergency use a double-acting foot brake is provided. The "Morette" can be made for one or two passengers and the motor equipment is designed according to the service required of it. The total weight of the complete single passenger rig is only 90 lbs.

## English 1000-Mile Motor Cycle Trials

At a conference between the Motor Cycle Advisory Committee of the Automobile Club of Great Britain and manufacturers of motor cycles it was decided to hold a motor cycle trial of at least 1000 miles with a minimum distance of 100 miles a day, engines limited to 3 H. P. and no maker to enter more than three machines, date, route and details to be arranged by an organizing committee consisting of ten members of the club and ten of the trade.

## The Freidman Gasoline Car

The Friedman Automobile Co., 3 E. Van Buren street, Chicago, Ill., showed their regular two-cylinder friction drive vehicle, and also a model equipped with a single-cylinder 5 H. P. engine and a sun-and-planet transmission, giving two forward speeds and reverse.

## Apperson Bros.' Touring Cars

The cars shown by Apperson Bros'. Automobile Company, of Kokomo, Ind., were of the tonneau type, with the motor in front under the hood. The motor consists of two cylinders horizontally placed with the crank case in the centre. Every part of the motor is accessible, and the motor can be removed from the chassis without difficulty. The [illegible] vance spark system is employed, with a make

[illegible] is accomplished by means of a [illegible] wood rim of [illegible] brass with a [illegible] rim. The [illegible] is of heavy steel tubing, [illegible] and polished. French [illegible] are furnished on order, and side

Friedman Auto Co., No. 3 Van Buren street, Chicago, Ill.—Gasoline cars with friction drive.

and-break contact. The current is furnished by a magneto and battery. A float feed vaporizer is used on each cylinder, and by throttling the mixture the engine can be run from 200 to 1200 R. P. M. A foot pedal controls the throttling.

The motor is water-cooled, a gear-driven pump circulating the water through the radiator. The water is fed to the pump by gravity. The Apperson Car is equipped with a force feed mechanically operated lubricator pump, with ten pipes leading to all parts of the machine. The oil tank holds enough for 200 miles' running. Each of the ten feeds can be independently adjusted.

A shifting gear transmission is used, which gives three forward speeds and reverse. All four speeds are controlled by one lever. The gears are cut from solid steel forgings and are oil tempered. A taper cone clutch is used on the flywheel, and is out of gear when the car is not in operation. The transmission gear runs in oil. The motor is started with a crank at the side of the car.

Thirty-six-inch artillery wheels and 4-inch clincher tires are used. The hubs run on phosphor bronze bearings with large oil cellars, carrying enough oil for a long trip. The rear axle is live, having a Brown-Lipe differential, and the driving chain in the centre. It is of forged nickel steel and runs on four roller bearings. The chain is of nickel steel. The main brake operates on the drum of the differential, and the emergency brake operates on drums at each end of the rear axle.

lamps are placed on the dash. These are furnished with electric burners to order. All parts of the machine are interchangeable.

These cars are [illegible] two classes. Class A has a 24-H. P. motor and is fitted with a removable or non-removable tonneau, as desired. It seats six and driver. Two powerful searchlights and two dash lamps, gas, oil or electric, are furnished with each Class A car. It also has red rear light. Dash is finished in mahogany, and also the board under front seat. Floor plates, switches and all levers and pedals are of polished brass. Rubber matting is furnished, and a full complement of tools and supplies. Price is $3500.

Class B lists at $3000. It has a 20-H. P. motor and removable tonneau body. Driver's seat folds down from rear door and two passengers sit in the front seat. Dash lamps are furnished.

## The Fredonia Tonneau

Fredonia Mfg. Co., Youngstown, Ohio, exhibited a tonneau which is a new model. Their runabout has been fully described before, and as the [illegible] equipment is similar in both, a detailed description at this time is not necessary. The Fredonia is a gasoline car equipped with a 9 H. P. engine, having a 5½x6 cylinder and aluminum crank case. The planetary transmission gives two forward speeds and reverse, all operated by one lever. Ignition is by jump spark. One oil cup is used on the cylinder, and there are three grease cups on main bearings. The frame is of 3-inch channel steel and 30-inch Sarven wheels are used.

## The Stearns Gasoline Cars

F. B. Stearns Co., Cleveland, Ohio, showed their gasoline touring car which is equipped with a 24 H. P. gasoline engine. The engine is water cooled, and circulation is by means of a centrifugal pump, worked directly from the flywheel. The coolers are of the multiple tube type. Speed of the engine can be varied from 100 to 1000 revolutions per minute by simply touching a button. Both valves are mechanically operated. The frame is of armored steel construction. The wheel base is 8 feet. Thirty-four-inch wood wheels are used. Very long springs support the body. The transmission gives three forward speeds and reverse, the drive being direct on the high

The Fredonia Mfg. Co., Youngstown, O., Exhibit Their Gasoline Vehicles for Daily Use.

## Prescott Steamers

Prescott Automobile Manufacturing Company, 83 Chambers street, New York City, showed their convertible touring cars. These showed no recent change in construction such as described in these columns. The Prescott car has a folding front seat, so that it is equally well adapted to city use or touring, carrying either 2 or 4 passengers, as desired. It is furnished with or without top. It has an indestructible burner and a 16-inch boiler of seamless steel with dry plate. It contains 367 one-half inch 20-gauge copper tubes, and the steam is superheated after passing through the throttle valve. A vertical [illegible] reciprocating engine is used, the cylinders being 2½x3½ inches. A plunger pump operated by the engine, a steam pump and a hand pump are provided for maintaining the water supply. The air pump is operated by steam. Double-acting band brakes act on flanges on the rear hubs. The driving sprocket is attached to the centre of the rear axle. The axles are connected by flexible reaches and four full elliptic springs support the body. The car weighs 1400 pounds. Price, without top, is $1100; with top, $1200.

speed. Lubrication is by a single oiler on the dash. The touring car is capable of speeds up to 30 miles per hour, and lists at $3000, which includes two gas headlights, two oil side lights, one tail-light, one horn with tube [illegible] set of tools. They also put out a [illegible] with a 12 H. P. single-cylinder motor. It lists at $2000 and weighs 1900 pounds. It is capable of speeds up to 33 miles per hour.

## The 1903 Murray Gasoline Car

The Murray Gasoline Car was exhibited by the Mead Cycle Co., 1243 Wabash avenue, Chicago, Ill., general United States agents for the Chard Manufacturing Co., Adrian, Mich., its makers. The general appearance of this car remains the same as last year, but it is now equipped with either wood or wire wheels. The removable hood at rear is hinged and does not have to be lifted off; the rear axles are double trussed, the engine frame or bridge is trussed, the muffler has been enlarged and placed lower. The starting crank operates directly on motor and is detachable, and no wiring is placed on the body.

## The Glidemobile

The Bartholomew Co., Peoria, Ill., exhibited the "Glidemobile." This is a gasoline vehicle of the runabout style, which was described on page 126 of our January issue. It is also furnished with a dos-a-dos seat. It lists at $750 in runabout style, and with a dos-a-dos seat the list price is $775. $25 extra is charged for fender and $50 extra for top and full storm equipment.

The appearance is exactly like that of a gasoline car, having a hood in front, wheel steering, three front lights and other earmarks of an up-to-date gasoline car. A feature of this vehicle is an entirely new form of motor and differential enclosed in the same dust and water-proof case, which is a part of the rear axle housing. The battery is divided, 16 cells being placed under the hood in front and 20 in the rear part of the body. The large battery equipment gives a wide range of service per

The Glide Gasoline Cars Exhibited by The Bartholomew Co., Peoria, Ill.

charge. The aim of the manufacturers has been to produce a stylish electric vehicle of large radius and an entire absence of any suggestion of a horse-drawn vehicle. They will also furnish this car with a [illegible] though they were unable to get one finished in time for the show.

## Buffalo Electric Vehicles

Buffalo Electric Carriage Co., Buffalo, N. Y., are one of the several concerns who recently brought out electric touring cars patterned after the gasoline car in outward appearance.

The Buffalo electric tonneau has a 10 H. P. double motor and an 80-volt battery of 40 cells. The wheels are wood, 32 inches in front and 36 in rear. Tires are 2½ and 3 inches respectively on the front and rear wheels. There are six speeds forward and four backward. Wheel-steering is employed and the controller is under the steering wheel. Two brakes are provided.

This company did not exhibit the new model, but showed their Stanhope and Brake which have been illustrated and fully described in these columns.

## The National Electric Touring Car

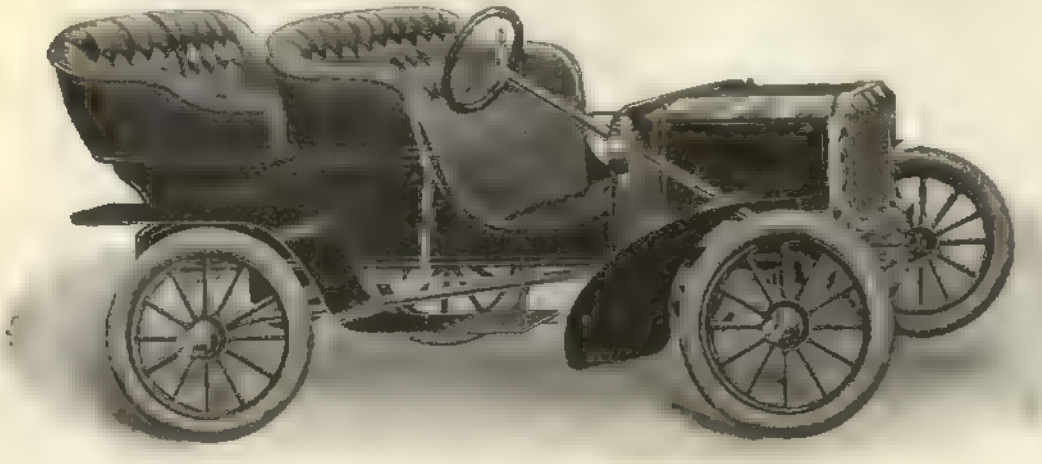
National Motor Vehicle Company, Indianapolis, Ind., showed an entirely new model in addition to the line shown at New York. The new model is a touring car, which they call their Model No. 120 electric long-distance car.

## Fanning Gasoline and Electric Car

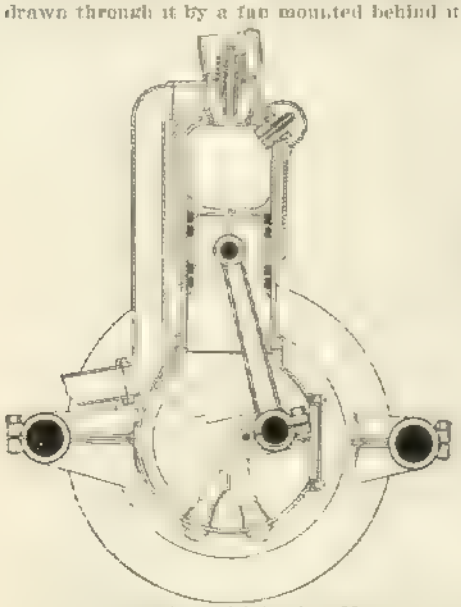
Fanning Mfg. Co., Morgan, Pratt and Stock Streets, Chicago, Ill., had on exhibition their gasoline touring car, the Fanning stanhope, and the Fanning electric runabout. In the gasoline car, which lists at $1500, the distinctive feature is a novel wooden paddle-wheel fan for cooling the motor which has extraordinarily deep cooling flanges. The stanhope lists at $1250 and is the touring car with the tonneau detached. The motor is a 9 H. P. double-cylinder engine, placed vertically in front under the bonnet. The electric runabout lists at the low price of $750 and is equipped with a 2 H. P. motor, capable of standing 100 per cent. overload. It weighs 950 pounds.

## The Welch Touring Car

Chelsea Manufacturing Company, Chelsea, Mich., exhibited for the first time the Welch Touring Car. The motor in this vehicle is a 20 H. P. double cylinder vertical four-cycle gasoline engine, and is mounted just behind the front axle, between two two-inch seamless tubes, which extend forward from the rear axle in the same manner as a pair of thills. The engine rests on semi-elliptic springs and the motor-supporting tubes have no connection with the body frame; thus no vibration can be transmitted from the engine to the body. The engine is water-cooled, the radiator being mounted as in the Mercedes car, and the air drawn through it by a fan mounted behind it.



The Welch Touring Car



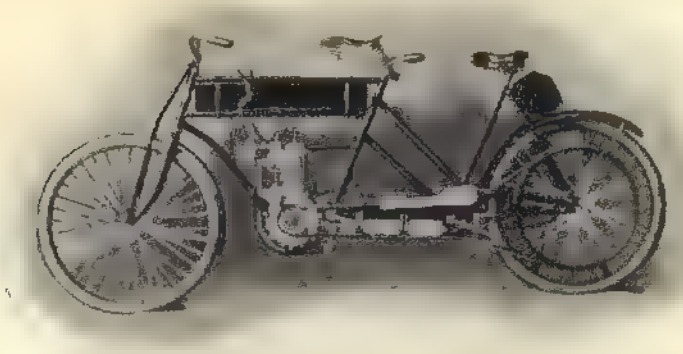
Cross Section Welch Gasoline Motor

By varying the compression any speed may be obtained from 5 to 45 miles per hour. The valves are each mounted in a separate casing and are each complete with springs, so that a new valve can be substituted in a few minutes. A large inverted exhaust valve is used, the burned gases being taken directly from the top of the spherical combustion chamber. Two light inlet valves are used on each cylinder. Pistons have each four rings; cranks are machined from solid forgings of crucible steel, and connecting rods are drop forgings.

The transmission gives two forward speeds and reverse. It consists of three hardened steel spiral gears and three hardened steel level gears, the latter revolving stationary when driving direct. All movements are controlled by friction clutches that run in oil and have large surfaces. A Brown-Lipe equalizing gear is used. The differential, transmission, clutches and brakes are all enclosed in a gear case, which is a part of the rear axle and contains oil.

The body frame is of angle iron. It extends in front of the cooler, which it supports, giving protection in case of collision, and is supported by long side springs. Artillery wood wheels are used, equipped with 3 ½x30-inch detachable tires. The rear axle is 1 7-16-inch nickel steel and runs on large roller bearings, which are removable with the axle. Heavy roller thrust bearings are also provided. The front axle is 1⅜ inches square. The steering knuckles have 1¼-inch stubs, with wheel line close to the pivot. Steering is accomplished by means of a 14-inch laminated wood wheel, which lies in any position and can be telescoped entirely out of the way.

The speed of the engine is controlled by the throttle and spark, and a great variety of speeds is obtainable. Ignition is by jump spark, with one coil and no vibrator. The primary make and break is between two platinum points, thoroughly protected from oil and dirt and very accessible. A float feed carburetor is used, and is provided with a heating jacket. The muffler can be cut out from the seat. The splash system of lubrication is used throughout. Tread is 56 inches; wheel base, 78 inches; length, 10 feet; height, 4 feet;



The Hercules Motor Tandem.

## The Hercules Motor Tandem

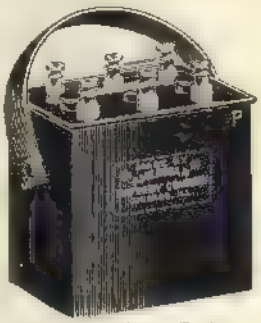
G. H. Curtiss Mfg. Co., Hammondsport, N. Y., will this year make a leader of the motor tandem illustrated herewith. This tandem is fitted with a 2½ H. P. Hercules Ball Bearing motor, having a newly devised throttle control. The complete machine weighs 150 lbs., and is capable of a speed of 30 miles per hour with its two riders. There is only one steer, the control being entirely from the front. One of Corson's motor cycle belts is used, and the Curtiss Co. advise us that it positively won't slip and can be run quite loose. Price of the Hercules Tandem is $250. They will also market this year a two-cylinder cycle motor of 5 H. P. for racing machines and will equip either their single wheel or tandem with this motor if desired. Price of the separate motor is $50.

In the Hercules Motor a change has been made from ball to roller bearings, which they say they have found to be more durable in this use. The tank on the tandem carries sufficient gasoline for 125 miles and the oil supply will run 500 miles. The frame is of 16-gauge tubing throughout, and has extra heavy front forks. A smaller front pulley is used on this machine to allow for the extra load. At an extra cost of $12 they will put on their truss fork and they will also supply a Regas spring frame attachment for $12 extra.

## American Ignition Batteries

American Battery Co., 172 and 174 South Clinton street, Chicago, Ill., have been manufacturing storage battery cells for a number of years and have lately entered the automobile field with a storage ignition battery for gasoline cars. The battery plates are made from slabs cut from pure rolled sheet lead, the blanks being grooved in herringbone style, the grooves extending upward and outward from the middle of the slab. These grooves are made quite deep, thus allowing the use of plates having large surfaces exposed to the electrolyte and at the same time affording a certain protection to the active material by reason of the ribs being upturned. The active material is formed electro-chemically from the plate itself and is in direct contact with it. The electrolyte has free access to every part of the plate, no asbestos or other diaphragm being used, and since the active material is in such close contact with the plate itself, the internal resistance is extremely low.

In constructing these batteries a capacity of three ampere hours per pound of elements is sought, and therefore, notwithstanding the



The American Ignition Battery

large area of the plates exposed, sufficient support is provided to insure long life to the battery. The insulators are so constructed as to both separate the plates and hold them from the bottom of the containing jar, so as to prevent accumulations of sediment reaching them. The insulator is channeled and engages with hard rubber pins, which protrude from the positive plates. There are no projections to catch scale or powder that might become detached from the plates.

Their type G. R. is suitable for use in connection with make and break coils. It has a voltage of 6; capacity, 12-ampere hours; weight, 17 pounds. It measures 4½x6¾x7¼ inches and lists at $15. Type G. W. is for jump spark use. It has a voltage of 4 and a capacity of 50 ampere hours. Its dimensions are 4¾x7 [illegible] inches and the list price

two or three persons. No other seating provisions are made as three persons is all that it is intended to carry.

The running gear is equipped with 28-inch wood wheels shod with 2½-inch Diamond tires. The wheel base is 65 inches. The body and seat are a dark wine color and the gear Brewster green. The body can be removed by taking out a few bolts, and all machinery is quite accessible. Price is $675.

## Exide Batteries

Electric Storage Battery Co., Nineteenth street and Allegheny avenue, Philadelphia, Pa., showed the Exide storage battery for automobile propulsion and also a storage ignition battery. Chloride accumulators were also shown. Several different styles and types shown gave a good idea of their construction. A new soft rubber plug is now used on their cells, and it is much handier, doing away with the old-style hard rubber screw plug.

the float-feed type. There is a sight feed oiler on the dash. A wheel steering device is used having a new locking device, on which patents are pending. The engine is fitted with an automatic spark lead.

## Smith & Mabley's Foreign and American Made Cars

Some of the 1903 improvements noticed on the cars shown by Smith & Mabley, 513-15 Seventh avenue, New York City, are new systems of governing the [illegible] by which the supply of gas is automatically increased or diminished; new direct system of changing gear; new electric double cam commutator, hand and foot throttles, and extra large radiator. They exhibited one of the new style 15 H. P. racing Panhard, one 15 H. P. Panhard touring car, one 10 H. P. light Panhard, a 15 H. P. C. G. and V., and some Mors and Mercedes Cars. All these, except the C. G. and

The Marr Gasoline Car.

## The Marr Gasoline Car

The W. L. Marr Autocar Co., 189 Jefferson street, Detroit, Mich., is a recently formed company which will market the Marr Gasoline car, illustrated herewith. W. L. Marr, the designer, is a man with 18 years' experience in gasoline engine construction, and J. P. Schneider, his associate, is a man of wide acquaintance in the automobile trade.

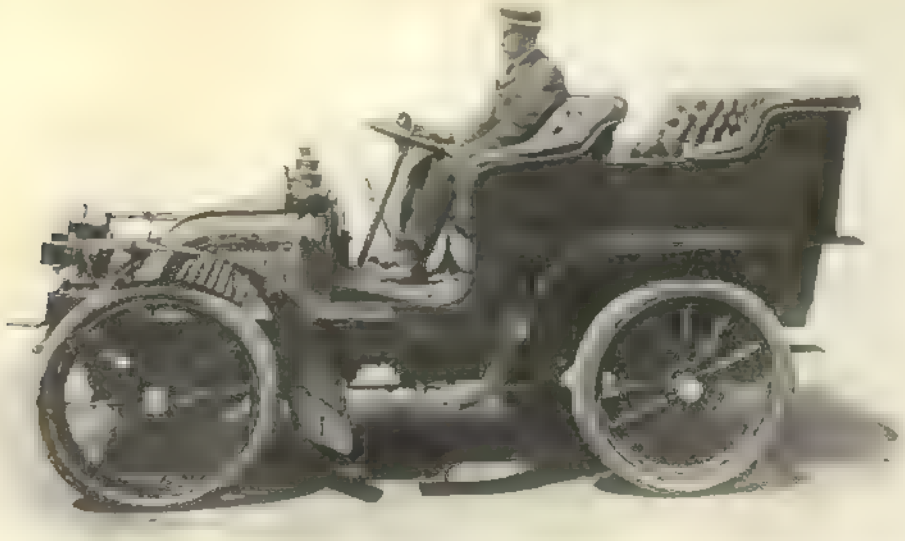
The Marr car is of the runabout type, and is furnished with either artillery or wire wheels. There is no under frame, the body resting on springs on a reachless running gear. The engine is placed toward the rear, and has a single cylinder. It is of the 4-cycle type and gives 6½ H. P. The carburetor is of

V., are of foreign manufacture, and the C. G. and V., though made in America, is patterned after French designs.

The C. G. and V. has a wooden, steel braced frame, 3x9½ feet. The wheelbase is 7 feet 10 inches. The frame is supported in the rear by three springs, one being a cross spring, thus obtaining transversal and longitudinal swing. Wheels are of wood and steel and are all of equal size. They are ball bearing and are interchangeable throughout. Double acting hand and foot brakes are provided.

The motor is a four cylinder gasoline engine of 15 H. P., with cylinders and head in one casting. The carburetor is water jacketed as well as the cylinders and heads.

The Panhard is well known to the Ameri-



The [illegible] can be applied to all styles of conveyances. They consist of two or four cylinders and are placed in front, being accessible from all sides, and automatically oiled. The control is obtained by pedal and three levers, one for change of gear, the other operating an emergency brake. Either electric or hot tube ignition or both may be employed. The wheels are of wood with metallic hubs and rims.

## The Kammann Electric Car

The Kammann Manufacturing Company, 240 West Lake street, Chicago, Ill., has exhibited a large electric car having two double seats and a tonneau. This machine was a pronounced novelty, having many unique features. It is named the "Jack Frost," and has [illegible] Stanley wire base and 56-inch gauge. The steering pivots are located in the hubs of the front wheels. The wheels are tubular steel, [illegible] with solid tires. The springs run diagonally from the extreme end of axles to the steel frame. The body is aluminum, and is fitted with pneumatic seats and cushions. It carries an 88-cell battery, 44 cells under the front seat and 44 under the middle seat. This battery will give a mileage of 80 to 100 on one charge. It is equipped with a very light 6 H. P. motor of Mr. Kammann's own make, having an extremely short magnetic circuit. Its controller is also very small and light, and the various speeds forward and reverse and the brakes are all operated with one lever. It is equipped with two contracting band brakes, which can also be applied by a foot lever, as well as by the controling lever. The failure of one brake does not interfere with the

The Kammann Electric Car.

Chicago Motor Vehicle Co., 370 Wabash ave., Chicago, Ill.—Exhibit of three heavy commercial gasoline vehicles. Friction drive is exclusively employed by this company.

is from [illegible] vehicle. A float feed carburetor is used and ignition is by jump spark. Transmission is by sliding gear for the slow forward speed and the reverse; and by direct clutch connection for the high speed. The transmission gear and motor are mounted upon a solid frame entirely independent of the carriage frame.

The wheels are of the artillery type and spokes and rims are of second-growth hickory. They are 28 inches in diameter and fitted with 3-inch clincher tires. The springs are oil-tempered and are graded for the load. Radius rods are dispensed with by connecting back springs with the frame and providing adjustment at the forward end. The axles are tubular. The rear one is divided and fitted with a Brown-Lipe differential.

The body is well made and handsomely finished. Spring cushions, well filled with hair, give comfortable seating. Leather is used as a covering. The body is painted maroon with black mouldings and the gear is finished in carmine.

The motor is started with a removable crank and its speed is controlled by throttling the mixture and timing spark. The forward speeds are obtained by a lever at the right of the operator and the reverse by a foot lever. Band brakes acting on the transmission and on the rear axle are operated by a foot lever. The body can be removed by taking out four nuts and detaching spark timer and switch wires. All adjustments of the motor and transmission can be made without detaching any other parts.

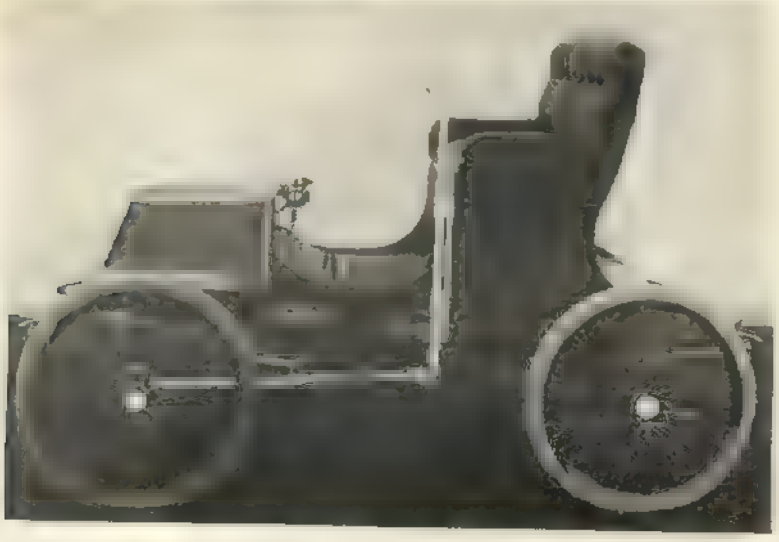
## Mitchell Motor Cycles and Automobiles

Wisconsin Wheel Works, Racine Junction, Wis., exhibited their automobiles for the first time, as well as the 1903 Mitchell motor cycles. They [illegible] ing two models of automobiles, one 7 H. P. car, with a two-cycle [illegible] and the [illegible] 4 H. P. car, with a four-cycle engine. The 7 H. P. car is known as Model IV. The engine is water cooled and develops its normal power at 800 rev-

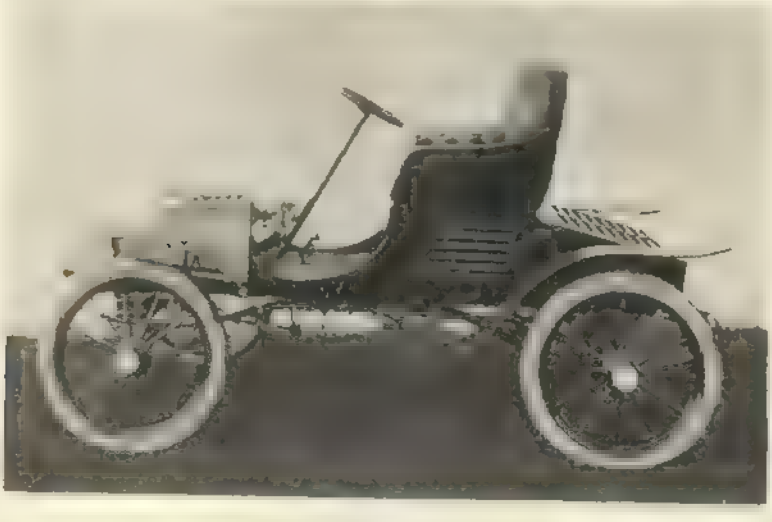
Front View Mitchell Air Cooled Car

lutions per minute. It is fitted with a planetary transmission, giving two speeds forward and reverse, the drive being direct on the high speed. Wheel steering is employed and jump spark ignition. The road wheels are of the artillery style, of tubular steel construction, and equipped with 3x30 inch Goodyear clincher tires. The rear axle runs on roller bearings. The tanks are of copper, the gasoline supply being sufficient for 150 miles, and the water supply seven gallons, thermo-siphon. The finish is "Mitchell" green mahogany running gear and the upholstering is in hard buffed steering is employed on this model. The tank capacity is sufficient for 200 miles. The tires are 2½x28 inches, and wire wheels are used. The finish is royal blue, gold striped, with vermilion running gear. Price, $600.

They are offering two models of motor cycles, 52 and 53. Model 52 is very similar to the 1902 model, but Model 53 has several distinctive features. It has a long wheel base, 57 inches, and the frame is reinforced between the seatpost tube and the lower tube, which curves around the base of the motor. It is also reinforced doubly at the head.



Mitchell Air Cooled Car—Side View



Mitchell Water Cooled Gasoline Car

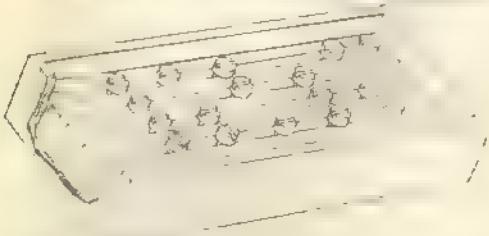
mahogany rather. Price is $850 with mud guards.

Model VI, Mitchell, Jr., has an air-cooled motor, running at 1400 revolutions per minute, giving 4 B. H. P. under actual test. Side Power is transmitted by a twisted rawhide belt. The rims of the wheels are steel, and Goodyear two-inch special motor cycle tires are used. The motor is of the four-cycle type, giving 3½ H. P. at 1400 revolutions per min-

## A Shop Kink

Louisville, Ky.

I presume some of your readers will be interested in the little shop kink which is described [illegible] I [illegible] shown as for the purpose of



holding the screws in position, to be picked up by the screw driver, shown in sketch. For the assembling bench I have found this tray and screw driver to be of the greatest value.

A box of screws can be poured into the tray, and with two or three shakes, every screw falls into position. The screw driver, or pick

up, as I call it, is then pressed over a screw, the spring sufficing being stiff enough to hold the screw, so it can be entered and screwed until pressure comes on; then the driver revolves the quarter or half turn until the positive driver slips into the slot of the screw, and a firm pressure can then be applied.

I have used this outfit at James Clark, Jr., & Co., manufacturers of motors and dynamos, for some time on assembling brush-holders, and have found it a great time-saver.

Sincerely yours,

J. S. BORDEN

Jas. Clark, Jr., & Co.,
Shelby and Berryman streets.

P. S.—By driving small brad nails in top of ribs (not shown in cut) the screws fall in grooves more readily.

## The "Nevermyss" Fire Extinguishing Compound

The Nevermyss Fire Extinguisher Co., Waterbury, Conn., make a dry compound for extinguishing fires, the advantages of which are [illegible] up in their catalog in the following terms:

"It is a dry compound, which contains no acid, no poison, no liquid, has no soldered or mechanical parts to break or operate, and will not freeze, cannot explode, waste or deteriorate by time or conditions, never needs recharging, is perfectly harmless to flesh or fabric, meets all conditions of fire, and can be used by anyone with perfect success."

The Nevermyss Compound is put up in handsomely decorated metal tubes, 22 inches long by two inches in diameter, and when thrown with force upon a fire, will generate an enormous volume of carbonic acid gas, immediately extinguishing the flame. Price of a tube is $3, or $30 per dozen. Judging from numerous testimonials printed in a booklet which the manufacturers issue, "Nevermyss" must be doing all that is claimed for it.

## The Harris Fire Extinguisher

Accidents will happen in the best regulated families, and when the accident is a fire in an automobile the remedy must be near at hand and efficient, or the accident will be an expensive one. For this reason the Harris Safety Fire Extinguisher will no doubt continue to meet with a large sale in the future, as it has done in the past.

This apparatus is very compact, and therefore quite adaptable to automobilists' use. It is 2½ inches in diameter, 18 inches long, and is made of seamless brass, well nickeled.

The Harris Fire Extinguisher

It consists of a reservoir for water, in which has been dissolved 4 ounces of common baking soda, and a holder for a bottle of sulphuric acid. It will throw a stream of acid solution a distance of 30 feet, the fumes of which will choke the flames effectually.

This device is made by Harris Safety Co., St. James' Building, New York city. Price of the extinguisher nickel plated, is $10; special burnished brass, $10.50; specially enameled, red, white or black, $11.50. Three full charges of chemicals are furnished with each extinguisher.

## Northern Motor Drive

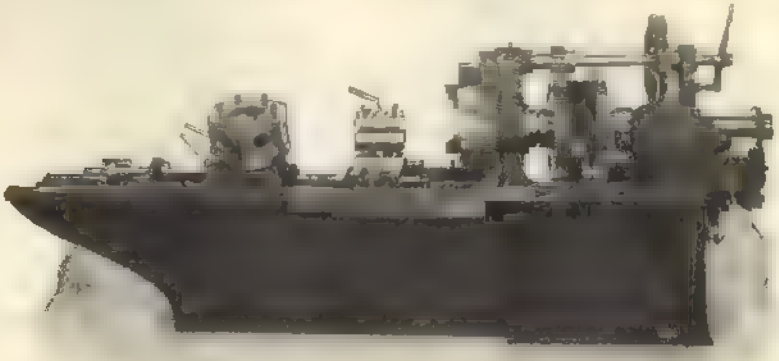
[illegible] on page 2[illegible] the February Journal, but by mistake the cut of the Flather 14-inch lathe was [illegible] of the cut of a [illegible] with Northern motor drive. We [illegible] below the [illegible] with the [illegible]

It is a well-known fact that a great deal of initial power in factories is wasted by the complicated shafting necessary to reach all the machinery, the many [illegible] absorbing a large percentage of the power generated by the [illegible]

To obviate this the Northern Electric Mfg. Co., Madison, Wis., have devised a system of motor [illegible] attached to each machine. By this system there is a great saving of power, [illegible] the fact that [illegible] is used only [illegible] being [illegible] for machines [illegible]

The [illegible] shows a Northern [illegible] geared to a Seneca Falls lathe. Northern drive [illegible] compound speed control. The range of speeds can be arranged to suit any requirements. In the [illegible] shown the motor [illegible] a range of [illegible] speeds. With [illegible] it is possible to work a lathe to its full capacity, an [illegible] belts, [illegible] shafts, renders the machine very accessible [illegible] advantage, [illegible] lathes [illegible] the [illegible] overhead obstructions.

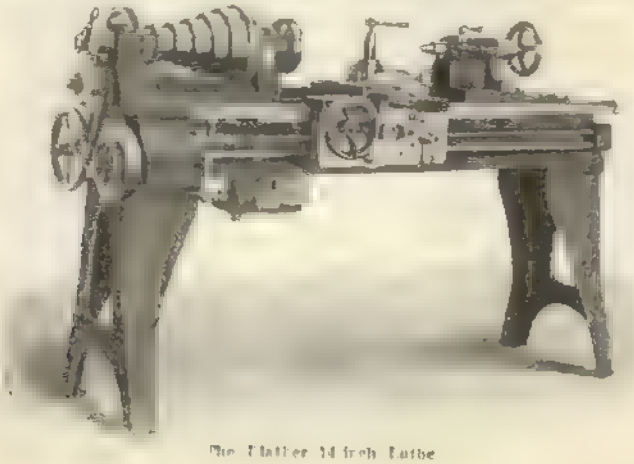
Among the general advantages claimed for electric drive by the Northern system are convenience of locating machines irrespective of line shafting; better light, due to clear space [illegible] machine; [illegible] of machine power; [illegible] belting; cleanliness, and great economy.



Turret Lathe with Northern Motor Drive

## Flather Lathes

[illegible] the Flather [illegible] the [illegible] of Dr. [illegible] Clarke & Co., [illegible] North Canal [illegible], Chicago, Ill., has been [illegible] and [illegible]. Every [illegible] is carefully tested [illegible] to work [illegible] and [illegible] strength is provided for all strains, no one part being made [illegible] at the [illegible] of the [illegible]. Each part is made [illegible] with the [illegible]



The Flather 14 Inch Lathe

## The Saint Louis Touring Car

The Saint Louis Motor Carriage Company, 1211-19 North Vandeventer street, St. Louis, Mo., have added a tonneau model to their line of 'Bigs that Run.' The first two have [illegible] does justice to the [illegible] as the car was only partially [illegible] the photograph [illegible] taken under adverse conditions. The car shown is the first one of the [illegible] and since this was completed [illegible] are turning out about ten a week.

The Saint Louis Touring Car.

The wheel base of the model is 7 feet 8 inches and the tread [illegible]. It has 30-inch 12-spoke wood artillery wheels shod with 3½ inch detachable tires and running on Timken Roller Bearings. Steering is accomplished by a [illegible] working a radius rod with ball and socket joints completely housed in a bronze casting and running in oil.

The engine and transmission are integral, and, therefore, [illegible] not get out of alignment. [illegible] gears of the shifting gear [illegible] interlocking device prevents [illegible] to the teeth while shifting the gears. All gears run in oil and only one oil [illegible] needed for the entire machine. A float feed carburetor is used. The running gear is [illegible] chainless type. The vehicle weighs 1600 pounds. The engine is water-cooled and the water is circulated by gravity through the [illegible] cylinders in the front of the car. The motor is about midway between the axles, slightly more toward the rear. It gives 8 H. P. All bearings are bronze bushed and [illegible] with [illegible]

Franklin Air-Cooled Gasoline Cars—H. H. Franklin Co., Syracuse, N. Y.

## The Santos-Dumont Gasoline Car

Columbus Motor Vehicle Co., Columbus, Ohio, showed their "Santos-Dumont" gasoline cars in various styles. Model B is a tonneau model, listing at $1850. It is equipped with 12 H. P. two-cylinder four-cycle engine, with cylinders opposing. A Miller & Fraser wipe spark ignition system is used. The carburetor is of the float feed type. The frame is of channel steel 2½x5 inch. The wheel base is 7 inches, tread 4 feet 8 inches and weight 1650 pounds. Either tubular or wood artillery wheels may be had. They are 30 inches in diameter and fitted with [illegible] Clincher tires. Powerful b[illegible] the differential. The steering device is on the worm-and-segment principle. The wheels run

Exhibit of the Columbus Motor Vehicle Co.—Santos-Dumont Gasoline Cars

on Timken roller bearings. A Lunkenheimer oiler lubricates the various parts. The car is finished in royal blue, and the upholstering is in hand-buffed leather. The price includes side gas headlight, two side oil lights, one tail light, horn and complete set of tools.

Model A is a runabout, with vis-à-vis or buggy top, as desired, and lists at $1250. The motor is a 6x6 single cylinder [illegible] H. P. Thirty-inch tubular steel wheels [illegible] Goodrich Clincher tires are used. Make-and-break ignition is employed. It weighs 1600 pounds, and is similar in other details to Model B.

In the Santos-Dumont cars the motor is hung in the centre. The transmission is of the spur gear type, and the gears are brought into action when the car is standing and the motor running. The gears are also idle when on the high speed. Two forward speeds and the reverse are obtainable. The tanks are placed in front under the hood, and the radiator suspended under the front. The tonneau is detachable.

## The Union Automobile

The Union Automobile Co., Union City, Ind., exhibited their convertible two or four-passenger car. As this vehicle was illustrated and described on page 170 of our February issue, we refer the reader to that article for information regarding its construction.

The manufacturers have just issued a very fine catalog describing the car and distributed it at the show. The Union car is fitted with the well-known Lambert gasoline engine and the friction system of transmission is employed.

## Popularity of the Packard

Perhaps the best proof of a car's reliability [illegible] second or third [illegible] one [illegible] automobile. The [illegible] Packard [illegible] sold by the Packard Motor Car Company, Warren, Ohio, who have sold [illegible] Packards to William D. Rockefeller, the [illegible] one with speed body [illegible] for December sale, which was $8100. This car was shown [illegible]

## The Wick Gasoline Car

H. B. Wick Company, Youngstown, O., showed a very handsome tonneau car, in which steel construction is the feature, channel iron and I beams being used. The axles are 1⅞ inches, Dalzell square axles. Swedish steel springs are used. The wheels are of the artillery type and are equipped with 34x4½-inch Diamond clincher tires. The drive to rear wheels is by chain and wheel steering is employed. The body is of aluminum as are also mud guards and hood. The engine has four cylinders, develops 30-H. P. and is water cooled, a rotary pump maintaining the circulation. The motor is placed in front under the bonnet. The engine bearings and the cylinder are oiled by pump. The speed gear runs in oil and ring oilers are on all bearings

The body is made by Quinby & Co. and is upholstered with the finest imported leather. The gasoline tank is under the seat and holds 19 gallons. The water tank holds 9 gallons and is placed in front with the cooler. Rear valves are mechanically operated and make-and-break spark is used with battery and magneto. Price is $8000, including canopy top, with plate-glass windows. Two electric headlights are placed at the front and two oil lamps on the dash. It has individual front seats and the tonneau holds four comfortably. The transmission gives four speeds forward, ranging from 4 to 40 miles per hour, and all speeds are obtained with one lever. Before changing speed friction clutch is released by means of a foot pedal. This pedal is also used for applying brake on compensating gear. There are also brakes operating on each rear wheel. The power of these brakes can be imagined from the fact that this car was held on an inclined boardwalk leading from the first floor down to the restaurant where this exhibit was placed. The inclined boardwalk was placed at a grade of about 20 per cent. The car is said to have been run 100 miles through 2 inches of mud on its first test after being brought out of the factory. One feature of the car is the fact that the current can be cut out from any cylinder, and thus any spark plug tested separately.

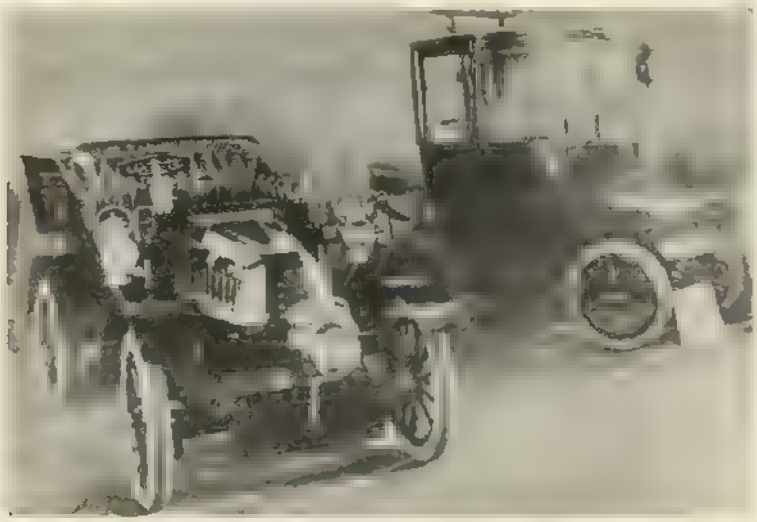
## The Tincher Gasoline Car

Among those who exhibited for the first time was T. L. Tincher, of 358 Dearborn street, Chicago, Ill. The construction of the gear is all steel. The front and rear axles are both solid and roller-bearing wood wheels are used. The body rests on semi-elliptic springs. Wheel base is 7 ft. 6 in., and tread 4 ft. 8 in. All nuts and bolts are standard.

The motor yields 18 B. H. P. and is of the four-cylinder, vertical type. Both valves are mechanically operated by one cam shaft. Each cylinder is cast separately, with water-jacket surrounding the body and valve ports. Splash lubrication is employed. The ignition is by jump spark. The transmission gives four forward speeds and reverse, and any change of speed can be made without passing through the intermediate speeds. One lever operates all speed changes and the clutch.

A feature of the Tincher car is the brakes, which are operated by air pressure. They are double acting. The air compressor is automatic. There is also a friction band brake acting on the counter shaft and operated by pedal.

The equipment includes two gas headlights, two oil side lights, two oil tail lights with red semaphore lenses, a four-chime air whistle, horn and necessary tools. Price, without tonneau, $2500; with detachable tonneau, $3500; Limousine, $4000 to $5000.



DeDion Touring Car and 6 H. P. Doctors' Coupe Exhibited by K. A. Skinner, Boston, Mass. American Agent for DeDion Bouton, Paris, France

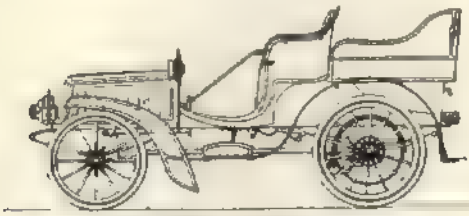
The wheels are of wire and shod with pneumatic tires. The manufacturers will be able to make deliveries in May and quote on the vehicle complete with top and mud guards as shown, $700.

## Apple Igniter Souvenirs

The Dayton Electrical Manufacturing Co., Dayton, Ohio, repeated their New York exhibit, except that their "apple igniter souvenirs" were in more active demand. They were attractive match boxes bearing the statement that Apple Dynamos would gasolene engines as well as the contents would light cigars.

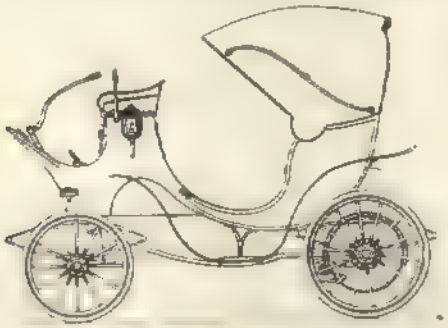
## Wood's Electrics

The Woods Motor Vehicle Co., Chicago, Ill., exhibited an extensive line of electric vehicles. Among their newer styles are a sporting car with detachable tonneau, list $2250, having a divided battery, 20 cells under hood and



Woods' Electric Tonneau

20 under front seat. Capacity, 50 miles on one charge. Either wheel or lever steering, divided front seats, extra seat on tonneau cover, emergency hand lever brake, which operates on axle in addition to regular controller brake, and a Victoria, list $2400, capacity 40 miles on a charge, divided battery



Woods' Electric Victoria

and extra disappearing seat behind dashboard. A new round front brougham and stanhope are also to be added, and also a new runabout listing at $1000, with capacity of 70 miles on one charge and 24 cell battery. This machine is built more substantially than the runabouts they previously produced.

## The Chicago Motor Vehicle Co.'s Heavy Vehicles

The Chicago Motor Vehicle Co., 370-372 Wabash avenue, Chicago, Ill., exhibited three styles of their heavy gasoline cars, and a chassis, a truck which is seen in the foreground of our illustration of their exhibit, a 12 passenger brake with canopy dog-seat and [illegible] covers in the background. The 12 passenger vehicle seats comfortably three full grown persons on each seat. The motors are powerful double-cylinder gasoline motors, with their well known friction transmission. Wheels are 40 inches and are supplied with 4½-inch tires [illegible]

## De Dion-Bouton Gasoline Cars

Kenneth A. Skinner, 179 Clarendon street, Boston, exhibited two De Dion cars, a 4½ H. P. with special enclosed coupe body, listing at $1,250, also a 9 H. P. tonneau, listing at $2,500. This style is also furnished with surrey seats.

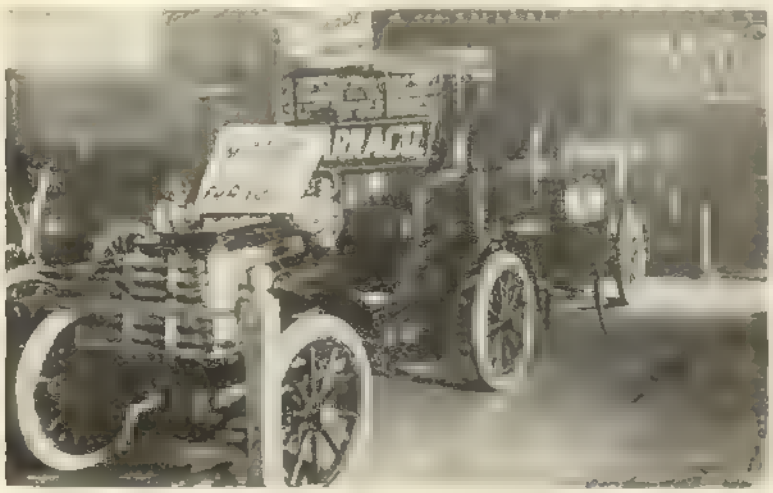
## Duryea Vehicles

The Waterloo Motor Works, Waterloo, Iowa, exhibited the well known Duryea vehicles, both three and four-wheelers. Features of their exhibit was a working model of the Duryea 3-cylinder motor and a tonneau with canopy top.

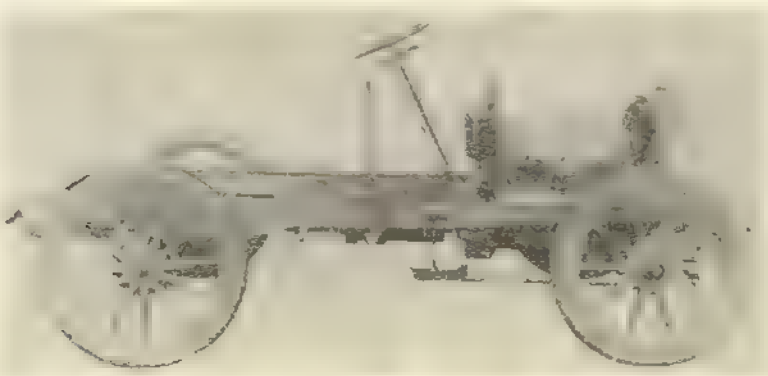
Exhibit of 20th Century Mfg. Co., 7 Warren St., New York. [illegible]

## The Darracq Gasoline Cars

The American Darracq Automobile Co., 652 Hudson street, New York city, showed the 1903 Darracq French Car, which has a more powerful engine than the 1902 model. It now has a 12 H. P., or larger two-cylinder engine. The chassis is of pressed channel steel well braced, and is hung on the axles with long roller springs. The motor is placed vertically and runs at from 200 to 1200 R. P. M. A honeycomb radiator is used, and also an exhaust fan for the [illegible] draft of air. Both valves are mechanically operated, and the oiling is automatic, the oil being warmed in cold weather to insure proper feed. Motion is transmitted from the clutch. The cars of 12 H. P. and over are a new departure for these famous makers. The cars are larger than heretofore, and the large tonneaus are capable of accommodating 6 persons comfortably. They are luxuriously upholstered and present a handsome appearance. [illegible] the 12 H. P. car they are offering a 16 H. P. two-cylinder car with [illegible] or racing, a 20 H. P. four-cylinder touring car with detachable top and tonneau and a 9 H. P. single-cylinder touring car with detachable tonneau, same as they put out last year. The 16 H. P. racing car can also be furnished with detachable tonneau. At the Chicago Show their highly-finished chassis created considerable talk and was one of the features of the exhibition.



The Exhibit of The American Darracq Co., 654 Hudson Street, New York



The Desberon Chassis

by wheel by a clutch and the change speed gear gives three forward speeds and reverse. All speeds are controlled by a single lever, located on the steering post, convenient to the operator, but entirely out of the way.

The regular brake consists of two friction shoes operating on a drum on the driving shaft. The emergency brake acts on the rear hubs, and putting on [illegible]

## The Auburn Gasoline Automobile

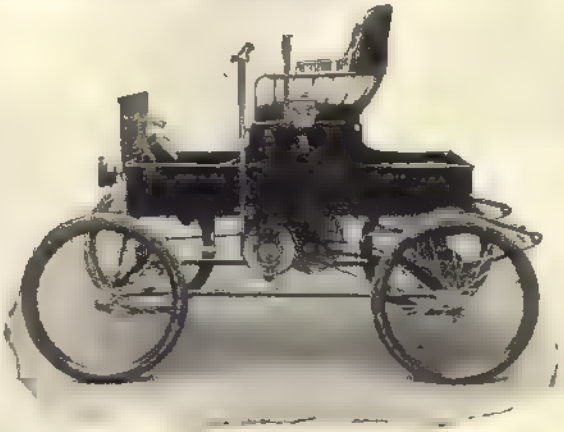
The Auburn Automobile Co., of Auburn, Ind., one of the later arrivals in the field, showed for the first time their gasoline tonneau car. The motor is of the four-cycle type and is cooled by forced circulation through a copper pipe radiator, which is hung

THE HIT OF SHOW The 1903

# Ajax Electric Runabout

$850

AN HONEST AUTOMOBILE AT AN HONEST PRICE



Long Mileage, Simple Control, Durability. Agents write for proposition.
Address N. Y. Agents for the General Automobile and Mfg. Co., Cleveland, Ohio
The General Gasoline Tonneau, price only $1000. The sensation of the Show. Call or write forth
A. L. Sampson Pres. Place 37th
AJAX MOTOR VEHICLE CO. 220 WEST 36TH STREET NEW YORK

## The Best Automobiles and Motors on Earth

16 H. P. Touring Cars. 8 H. P. Runabouts.

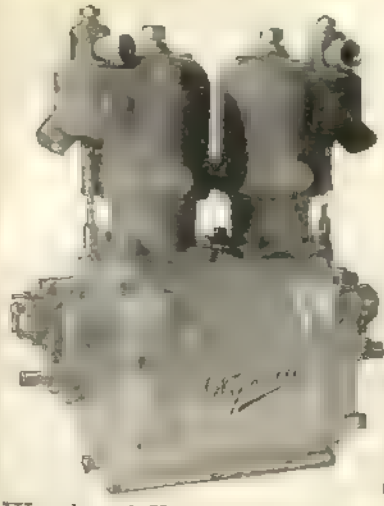
We have a good proposition to make good agents. Write us at once.

## Attention, Manufacturers and Builders!

We can quote you favorable prices on the best motors, transmissions and carburetors on the market. We also are making a specialty of strainers which will absolutely keep clean the gasoline for the carburetor. Do not buy elsewhere before corresponding with us.

## National Automobile and Motor Co.

OSHKOSH, WISCONSIN



## Wyoma Automobile Gasoline Motors

French Type, water cooled

8 H. P. Single Cylinder
14 H. P. Double Cylinder

**Wyoma Transmission Gears**

**Wyoma Spur Gear**

for direct drive, rod transmission or with chain sprocket.

**Tubular Running Gears**

We are also manufacturers of **Radiating Coils, Aluminum and Brass Hoods.**

Wood and Wire Wheels Auto Mufflers and Carburettors

# RELAY MOTOR CAR CO.

Tenth and Exeter Sts. Reading, Pa.

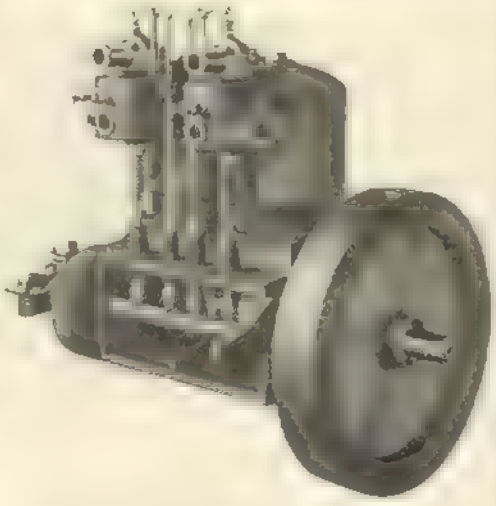
## Stolz Gasoline Motors

**Points of Superior Merit**

*Simplicity*
*Durability*
*Safety "Make and Break" Device*
*Mechanically operated Inlet Valves*

*Write for Circular*

ESTABLISHED 1848



PATENTED AND PATENTS PENDING

# Conger Mfg. Company

Groton, Tompkins Co., N. Y., U. S. A.

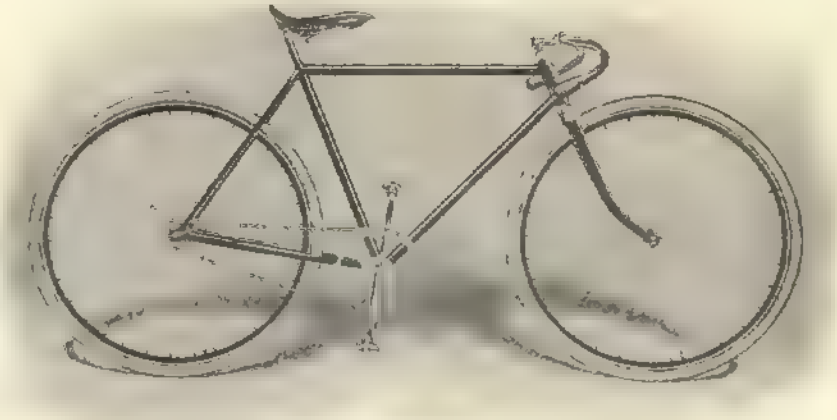
# The MEN

## who make the most MONEY

are not always those who do the most work

**BICYCLE AGENTS** who buy right [illegible] to work hard to sell wheels
**GOOD GOODS** at popular prices tell the tale of success
**OUR CUSTOMERS** find it easy and profitable to sell

## Apex and Corsican Bicycles



APEX RACER—LIST PRICE, $50.00

Do you want to become one of the lucky dealers? If so, write us for prices in the trade terms

# APEX WHEEL CO.

## 210, 212, 214 SOUTH AVENUE, ROCHESTER, N. Y.

WE ARE NOT IN THE TRUST

by this enterprising firm. The cover is illustrated with 2 forgings upon which is shining a red glare from below. The effect is beautiful. A perusal of the pages shows the beauty is not skin deep only, and that the book is [illegible] as well as pretty. [illegible] for all purposes of [illegible] steel, copper, bronze and aluminum.

## Reading Standard Cycles

Reading Standard Cycle Mfg. Co., Reading, [illegible] Apps is now proprietor, has all its departments running overtime, and the prospects for a big season's trade are certainly assuring. The line includes the [illegible] $25; the Reading Standard [illegible] and the Reading Standard [illegible] $25.

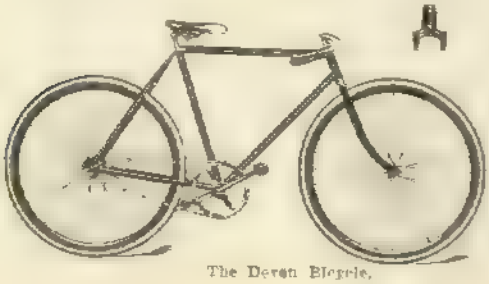
The Road Racer is made in 20, 22 and 24 inch frames, and is finished [illegible] black with options on crimson or robin's-egg blue. Seven-inch drop forged, two-piece cranks are used. The handlebars are made of [illegible]-inch seamless tubing and held by an expander. An Indianapolis chain and Bridgeport rat-trap pedals are used.

The Road Racer is made regularly in 22-inch frame, but a 20 or 24-inch frame can be had if desired. The finish is black, with a crimson head. Options are given on plain black, crimson, robin's-egg blue and light navy blue. This model has adjustable handlebars [illegible] suspension bars if desired. Star [illegible] and an Indianapolis Diamond Chain are used; also [illegible]

The racer has [illegible] wheels [illegible] are [illegible] frame is 21 inches high [illegible] has [illegible] of 24 [illegible] The head is 1⅝ inches. The finish is [illegible] with black head and gold striping. Option is given on all blue or black with crimson head. The seat post is L-shaped, and has a positive expander. D. & J. 6½-inch two-piece, drop forged cranks are used. Star-light racing pedals, Troxel hard saddle, Indianapolis diamond chain and Thor racing hubs are included in the equipment.

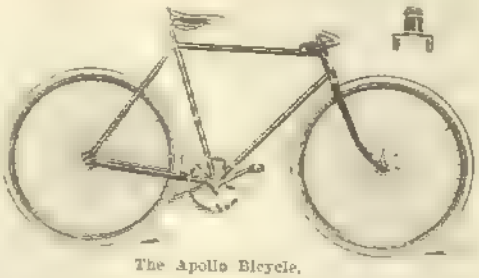
## Devon and Apollo Pedal Cycles

Edward K. Tryon & Co., 10 North Sixth street, Philadelphia, have their 1906 Devon and Apollo pedal cycles ready for the trade. The Devon is made of 1⅛-inch tubing with flush joints. The head is 1½ inches and the rear forks are oval and tapered. One piece,



The Devon Bicycle.

[illegible]-inch cranks are used, a triple-plate crown and an adjustable handlebar. The latter, as well as the seat-post, have expanders. The



The Apollo Bicycle.

Devon is made in 20, 22 or 24-inch frame and can be had in plain black or black with red head. All small parts are nickeled. The equipment includes Devon tires, Genesee pedals, Vesper saddle, 3-16 Indianapolis chain. This is also made in ladies' style with 6½-inch cranks and 20 or 22-inch frame. List price is $20.

The Apollo is a higher grade machine, listed at $25 for men and $27.50 for women. It has an Apollo saddle, Bridgeport pedals, M. & W. Hartford No. 70, or Goodrich No. 10 tires; 7-inch cranks, one piece; flanged hubs, adjustable bar and is made of 1-inch seamless tubing with flush joints. Morrow or New Departure brake is furnished at $5 extra.

## Miller's Sons' Belt Dressing and Lubricants

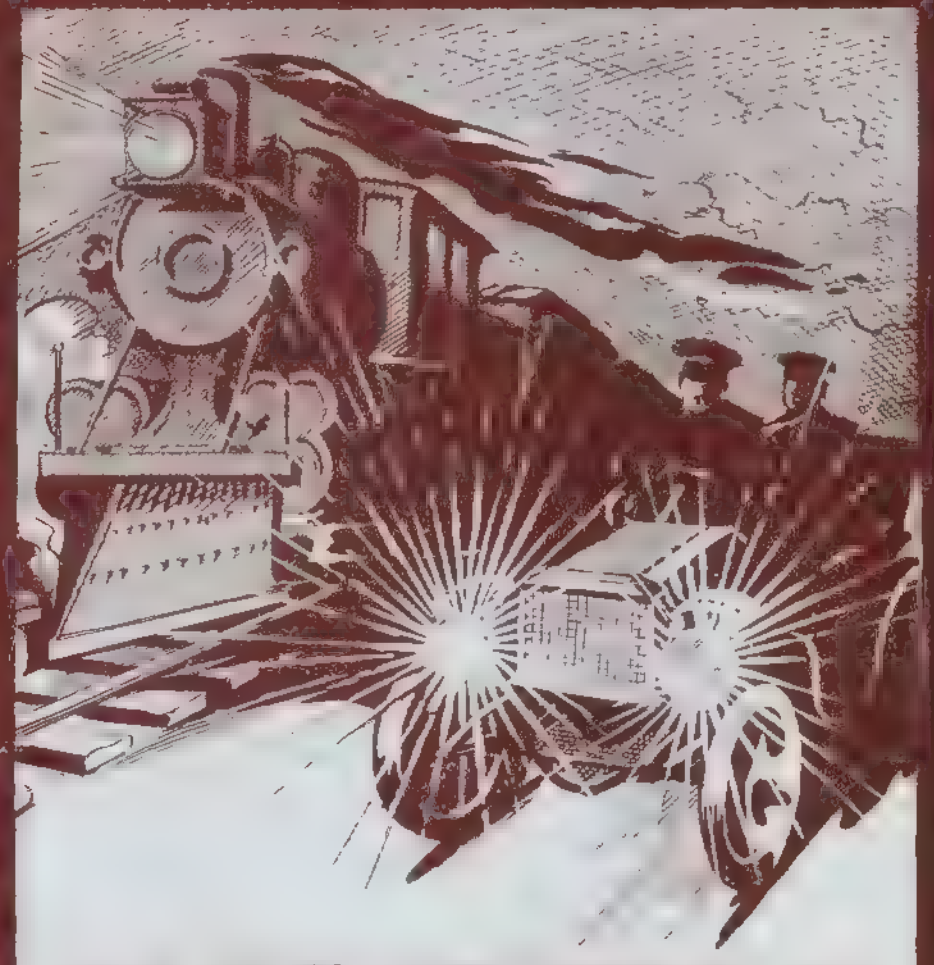
Wm. P. Miller's Sons, 100-102 Greenpoint avenue, Brooklyn, N. Y., are meeting with great success with their "F. & O." belt dressing. The non-slipping properties of this dressing are winning it favor on all sides. It is said to be the first product of its kind especially prepared for use on motor cycles and automobiles and is adaptable for use on hide, rubber, fabric or metal belts and on all friction wh[illegible]

Besides their well known chain lubricant they are offering cylinder lubricants and machine oils for all purposes. The belt dressing is put up in stick form and is sent postpaid on receipt of price, 25 cents.

## The Lumo Arc Light

Acorn Brass Mfg. Co., Chicago, Ill., has brought out an incandescent gas light constructed on scientific principles and designed to produce a better light than the ordinary gas burner, although more economical in the consumption of the gas. In place of the usual screen there is a swirler used that produces a perfect mixture of gas and air, and caused a brilliant soft light not harmful to the eyes. A great many of these lamps are sold through bicycle dealers, and they make an excellent side line. Small gas consumption and better light make good talking points. Dealers will also find these lights a valuable addition to their own stores.

# PUTS A LOCOMOTIVE HEADLIGHT IN THE SHADE



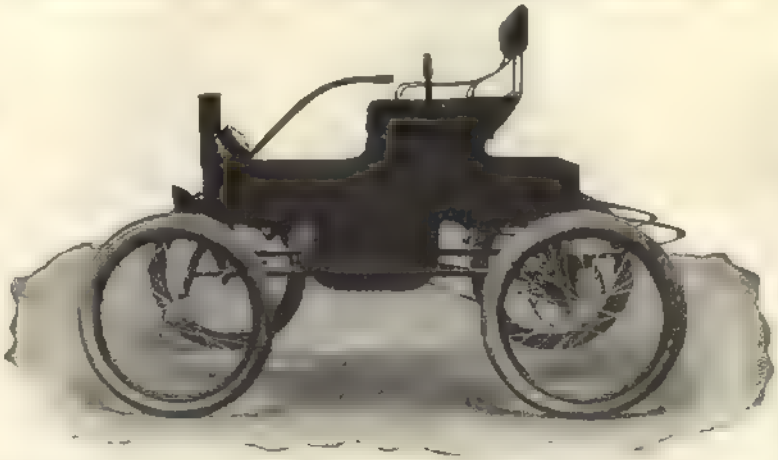
## SOLAR MOTOR LAMPS SHOW THE WAY

**Phare Solar, No. 1. 1160 Candle Power**

We make a score of other styles and sizes of Gas and Oil Side Lamps, Headlights and Tail Lamps, which are scientifically and substantially constructed. In operation they shine and are satisfactory. All fully guaranteed. Write for free catalog.

**BADGER BRASS MANUFACTURING CO.**
**KENOSHA, WIS.**

*ELEGANCE and EFFICIENCY Combined*



THE BAKER

FOR BUSINESS FOR PLEASURE FOR RELIABILITY
FOR DOCTORS FOR PROFESSORS FOR EVERYBODY
ABSOLUTELY CLEAN ABSOLUTELY SAFE

SEND FOR CATALOG

THE BAKER MOTOR-VEHICLE COMPANY, Cleveland, Ohio

Agents, it means dollars for you to write us at once.

This is the best proposition in the steam game in this country.

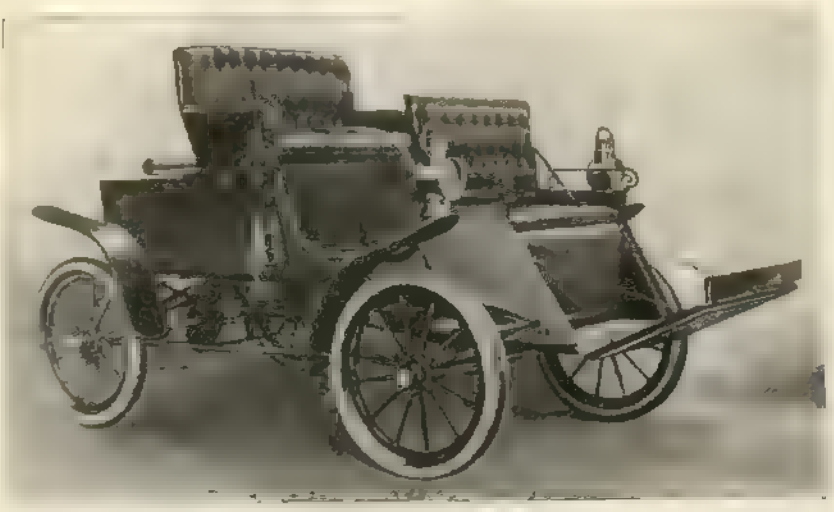
**Our "R. M." Model**

**Price, $850.00**

THE METEOR ENGINEERING COMPANY
Reading, Penna.

# GROUT DROP FRONT

**The Only Satisfactory Combination Car**



Rear seat drops fully 12 inches. This is our patent. No other vehicle has it

**GROUT BROS., - Orange, Mass.**

# THE SHELBY MOTOR CAR CO., SHELBY, O.

Manufacturers of

THE SHELBY GASOLINE 10 and 20 H. P. CARS

## OUR MOTOR

Two Pistons [illegible] cylinder [illegible] the crank [illegible] both pistons in an outward direction, reducing vibration to a minimum. Over 40 per [illegible] ency than in a single motor. This is only one of the many [illegible] ports found on the Shelby Cars. For further particulars address Dept E

# THE SHELBY MOTOR CAR CO., SHELBY, OHIO

# Important Notice

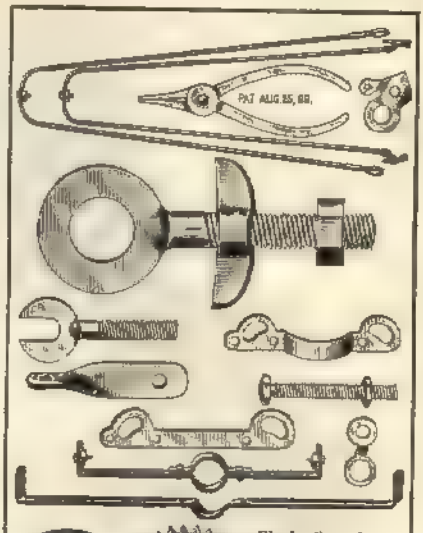
**C. O. T.**

The full line of goods formerly manufactured by Cox & Tingley can be furnished only by the undersigned, who are the successors of Cox & Tingley—all others are imitators.

All boxes and labels will be marked **Chas. O. Tingley & Co.** successors to Cox & Tingley. The trade is warned to look for this signature. The entire line formerly made by the old concern will be continued, there will be no deterioration or variation in the quality, which made these goods standard.

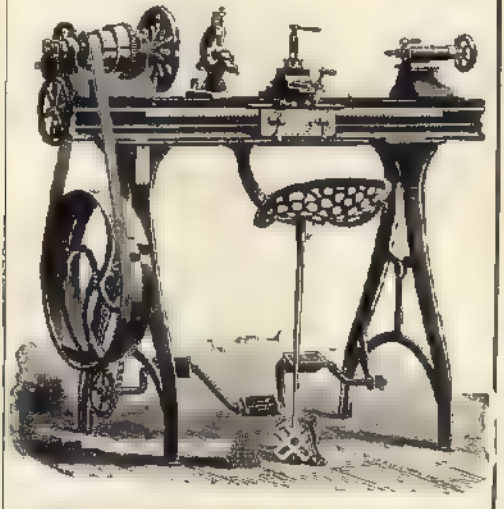
## Chas. O. Tingley & Co.

(Successors to Cox & Tingley) RAHWAY, N. J.




Chain Guards
" to fit "
any shape tubing

A. N. CLARK & SON, Manufacturers
Plainville, Conn.,
Front Fork Mud Guard Braces, Lacing Clips, Chain Guard Braces, Sprocket Chain Adjusters, etc.
STEVENS & CO., 99 Chambers St., New York
[Ask for electros] Sole Agents
Estimates on Automobile Parts and Fittings

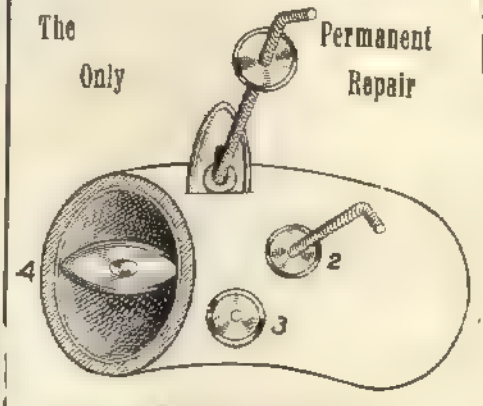


**$90** No. 5 Screw Cutting Lathe **$90**
11 in. swing 34 in. between centers.
Also Make

No. 4½ Lathe, 9 in. x 25 in. List Price, $65 00
No. 5½ Lathe, 13 in. x 34 in. List Price, $125 00
No. 13 Lathe, 13 in. x 33 in., with compound rest and automatic cross feed $152 00
13 in. Swing Lathes made in beds 5 to 10 ft. long.

**W. F. & JNO. BARNES CO.**
Send for Catalogue 204 Ruby St., ROCKFORD, ILL.

## A NECESSITY




with this combination a cheap tire full of "soup" and a puncture is a **Sampson Brass Plug.** Try one. The largest, strongest metal plug made. Conforms to the shape of the tire. 60c doz. Repair kit, 25c. No tools necessary

LOUIS SCHWAB

134 Milford St. Newark, N. J.

—THE—

# SPERRY BATTERY

Has Never been Equaled for Electric Vehicles

Write for Particulars

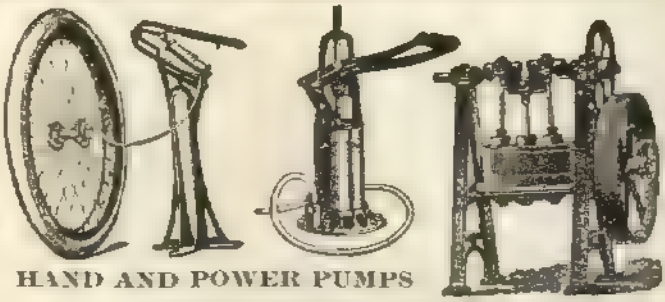
## NATIONAL BATTERY CO.

BUFFALO, N. Y.

Foot Horn

PRICE $12.50 COMPLETE
- $6.50 PUMP ONLY

PAT APPLD FOR
No. 225.



HAND AND POWER PUMPS

FOR BICYCLES AND AUTOMOBILES

**GLEASON-PETERS AIR PUMP CO.**, Houston and Mercer Sts., New York

## ATTENTION!

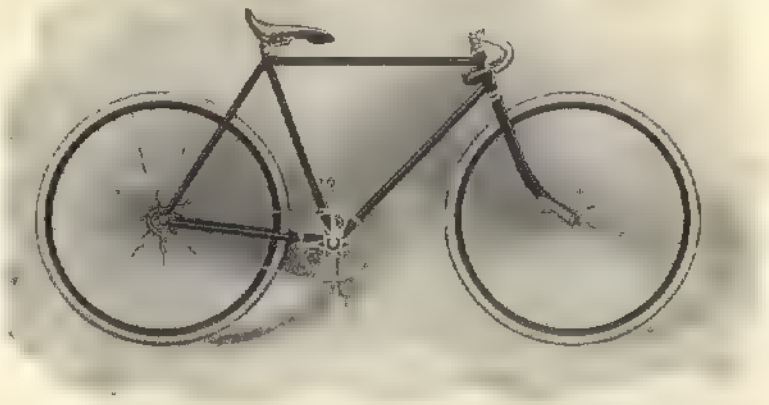
**None is required if you have a REASON AUTOMATIC AIR PUMP on your Steam Vehicle, supplying the air pressure**

It is ADJUSTABLE to any desired pressure by simply turning a thumb-screw.
It maintains even pressure required. Never stirbs or blows out. Never runs out of supply of air, or allows gear wheels or connections to run over pressure.
Write to-day for description and prices

## REASON AUTOMATIC AIR PUMP CO.

PONTIAC, MICH.

The only self-contained, adjustable, self-controlled air pump made.



If you are a large dealer and want something special in a bicycle, made by an old established firm, write for catalogue at once.

**THE BEAN-CHAMBERLIN MFG. CO.**
HUDSON, MICHIGAN

**READING STANDARD**

The **Reading Standard** 1903 models consist of

**TRACK RACER - $50.00**
**ROAD RACER - $35.00**
**ROADSTER - - $25.00**

**High Quality is our watchword and our prices could not be more reasonable.**

Besides, we have a special proposition of interest to every live, energetic dealer, who is in business for profit. Responsible agents wanted everywhere.

Write us for further information.

**Reading Standard Cycle Mfg. Co.**

**Reading, Pa., U. S. A.**

READING STANDARD

READING STANDARD

READING STANDARD

# Brecht's Running Gears and Bodies

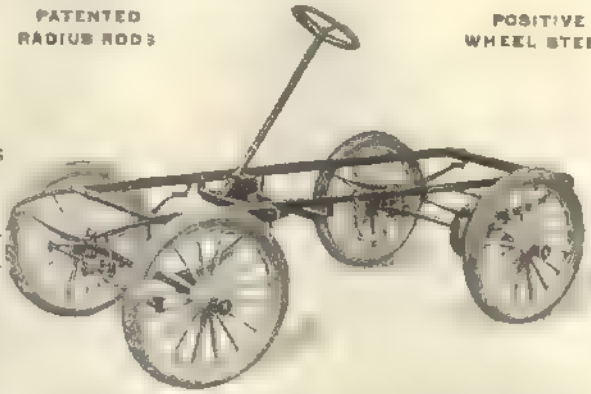
in the white. Ready for Power

BUILD YOUR OWN Automobile

WE WILL Furnish the Parts

PATENTED RADIUS RODS

POSITIVE WHEEL STEER



HAVE YOU SEEN Our new $10 Colonial Body with folding seat in front?

Suitable for Two or Four Passengers

We furnish all kinds of Radiating material. Write for our illustrated catalog and list prices

WE ARE MANUFACTURERS, NOT JOBBERS

BRECHT AUTOMOBILE CO., 12TH AND CASS AVE.

ST. LOUIS, MO.

Members of the National Association of Automobile Manufacturers

# JONES-CORBIN GASOLINE CARS

FEATURES.—Wheel Base 6 ft. 6 in.; Wood Wheels; Cone Clutch; Sliding Gear, Transmission, 3 Speeds Forward and Reverse; 1st 12 miles, 2d, 20 miles, 3d, 35 miles.

steering device. Mercedes

Capacity [illegible] gallons, gasoline and water for 200 miles. Lubrication [illegible]

JONES-CORBIN CO.

Main Office, 304 N. Broad St. PHILADELPHIA, PA.

# BUCKMOBILE

## $850.00

The Sensation of the New York Show! The easiest-running and most powerful machine for its weight in the world. 10 H. P. Engine under seat. Sliding Transmission Gear. Fly-wheel Clutch. Body can be removed by taking out four bolts. The buckboard style of the vehicle makes possible high speed over rough roads.

The popularity of this vehicle is made evident by the large number of sales which we booked at the New York Show, including a bona-fide order for twenty-five machines from our London agent. Notwithstanding the large demand for the BUCKMOBILE, our facilities will enable us to accept orders from a few more first-class agents in good territory. Write us for proposition. We give more for the money than any other manufacturer in the United States.

## THE BUCKMOBILE CO.

## UTICA, N. Y.

# Locomobile

*16-H. P. Locomobile with Four-Cylinder Front Vertical Engine*

## EASILY THE BEST CAR BUILT IN AMERICA

Our gasoline touring cars were the sensation of the New York Automobile Show, and the large number of orders which we took fshowed the appreciation of the public for original design, workmanship of the highest order and that close attention to detail which is so necessary in high-powered gasoline touring cars. We are making both two and four-cylinder cars, and our magnificent manufacturing facilities at Bridgeport, Conn., will enable us to make early spring deliveries. Write for complete information ORDER NOW

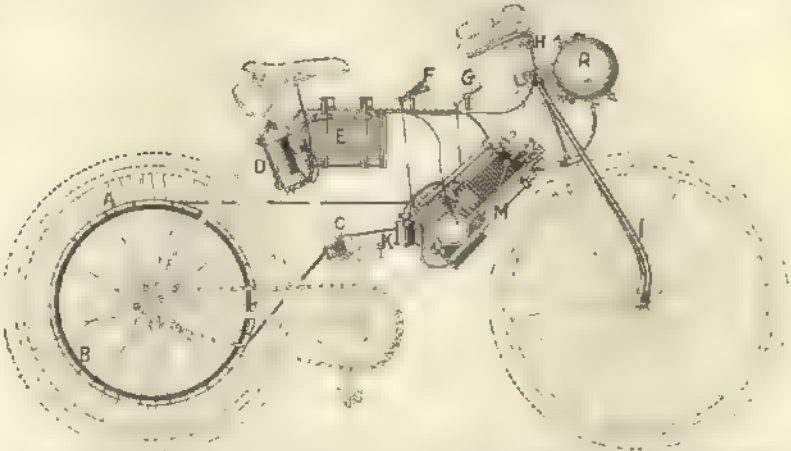
## The *Locomobile* Company of America

**No. 7 East 42d Street, New York**

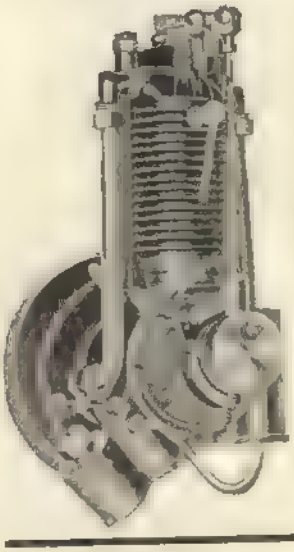
# ANY BICYCLE can be made A MOTOR CYCLE

BY USING THE

## Clement Motor and Outfit




We supply the motor and all necessary accessories. You do the rest



This is the best money-making proposition ever offered to the dealer.

**Jobbers**, we have something special for you. Ask us.

Our outfit will make any old cycle a motor cycle, and at the same time make money for the dealer who is wise enough to push its sale

**The Clement Motor and Outfit** is thoroughly practical, having been used successfully for years in France.

*Write us for Catalogue and prices*

**The A. Clement Cycle Motor and Light Carriage Co.**

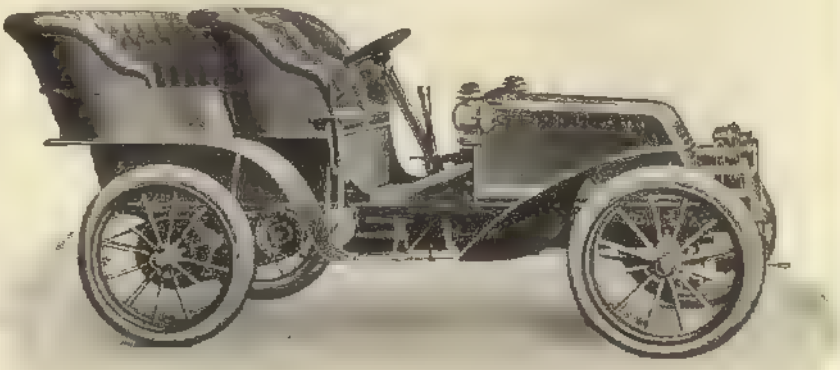
**350 Sheldon Street, Hartford, Conn., U. S. A.**

# Columbia AUTOMOBILES

## FOR 1903

**New Models** **Many Improvements**

Electric and Gasoline
Vehicles for all
Requirements



COLUMBIA GASOLINE TOURING CAR, MARK XLI

RUNABOUTS, VICTORIAS, SURREYS, TONNEAUS, CABRIOLETS
COUPES, HANSOMS, BROUGHAMS, SPECIAL SERVICE WAGONS,
DELIVERY WAGONS, TRUCKS, PATROL-WAGONS
AMBULANCES

**Leading Models, Including the New**

## COLUMBIA 4-CYLINDER, 20 H. P. GASOLINE CAR

Attracted most favorable comment at the New York Show and will be exhibited at Chicago

*Catalogues and complete information will be sent on request.*

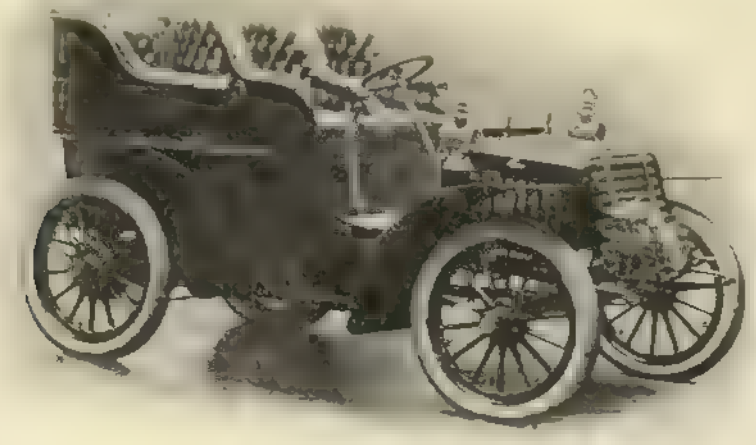
# Electric Vehicle Co.

## Hartford, Conn.

*NEW YORK* 100 *Broadway*
*BOSTON* 43 *Columbia Ave.*
*CHICAGO* 1421 *Michigan Ave.*

## The Hall Motor Car

The Hall Motor Vehicle Company, of Dover, N. J., is another of the new concerns that exhibited for the first time at the New York Show. The Hall car is of very imposing appearance. The model shown was a large tonneau, with solid front seat. They also build it with individual front seats if desired. The engine is 6x6, with horizontal opposed cylinders, and is water cooled, circulation being maintained by a rotary pump. The engine is placed on a steel frame. It gives 20-H. P. Lubrication is by means of an oil pump and the tank and cooler are placed in front under the bonnet. The transmission gives two forward speeds and reverse and is of the sun-and-planet type. The drive is by spur gears. This car is capable of a speed of 20 miles per hour. It weighs 2400 pounds and is equipped with 34-inch artillery wheels and Goodrich clincher tires. Wheel steering is employed. The engine is ignited by means of a make-and-brake spark in connection with the battery. The body is of aluminum. This car is listed at $5000 and is guaranteed for one year



The Hall Motor Car

## World's Record for Changing Inner Tubes

Aided by the perfect construction of the Goodyear Detachable Tire a new record was made at the New York Show for changing the inner tube. Heretofore the record time has been nine minutes, but the Goodyear Tire & Rubber Co., of Akron, Ohio, succeeded in cutting this down one-half, and establishing a record of 4½ minutes.

Tires are such an important factor in the automobile that a tire which is so easy to repair, as well as so difficult to puncture, is virtually "an insurance policy against trouble."

## Meriam-Abbott Company

Meriam-Abbott Company, Cleveland, O., showed one of their charging plants, consisting of an upright hydro-carbon engine, connected to a dynamo. This plant has been fully described in former issues, and showed no changes in its construction. As it can be used for an independent lighting plant, etc., it naturally attracted the attention of many who were not particularly interested in automobiles. The Meriam-Abbott plant is used by a number of large concerns, who highly recommend it

## The I. M. C. Steering Check

Edwin L. Smith, 41-45 Columbus avenue, Boston, Mass., showed his I. M. C. steering check. By the use of this check the wheels are locked in whatever position the operator desires them to remain. The vehicle is under full control of the operator, and no shock is transmitted to his hands from the jolting of the wheels over the rough road. The steering lever cannot be thrown from the hands of the operator when this check is used. It is enclosed in a dust proof casing

---

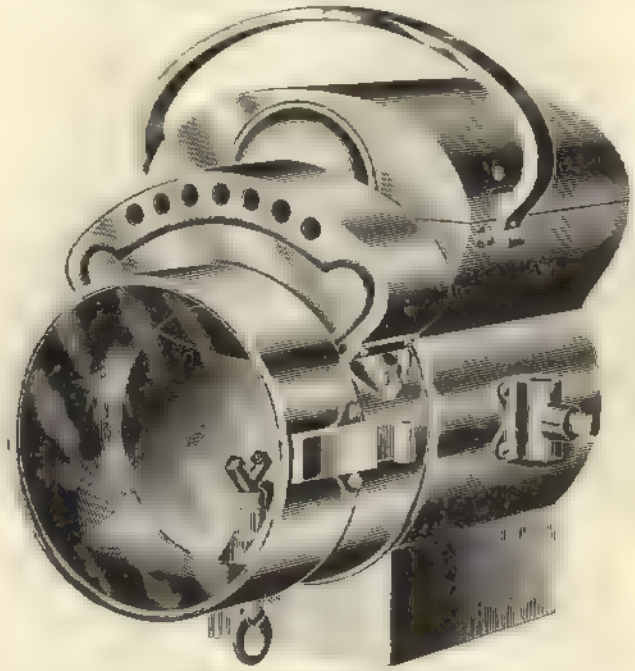
Theo. F. Merseles on January 1 resigned the presidency of the International Motor Car Co

P. C. Lewis, Boston's pioneer automobile dealer, died recently in that city

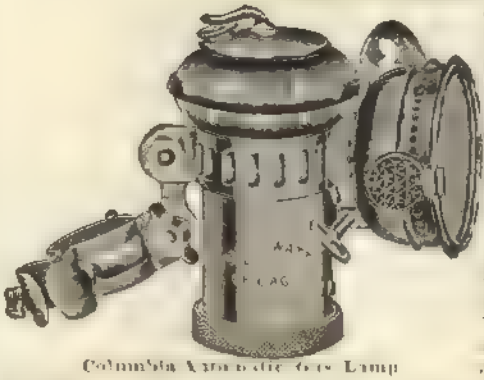
Williams Gas Engine Co., Dexter, N. Y., have perfected a four-cylinder, four cycle, 10 H. P. automobile engine and will shortly place this and other sizes on the market. They have been building marine and stationary gas engines for a number of years

# COLUMBIA AUTOMATIC GAS LAMP

**For Bicycles, Buggies and Motor Vehicles**



Columbia Auto-Headlight



Columbia Automatic Gas Lamp

Standard finish nickel plate or gas tight. Large lamp brass [illegible] Valve or air [illegible] the same pipe. Low gas pressure and light [illegible] by gas cock. [illegible] by gas pressure [illegible] Corrugated [illegible] Most powerful and [illegible] with burner [illegible] Burners [illegible] [illegible] [illegible]

GUARANTEED

## HINE-WATT MFG. CO.

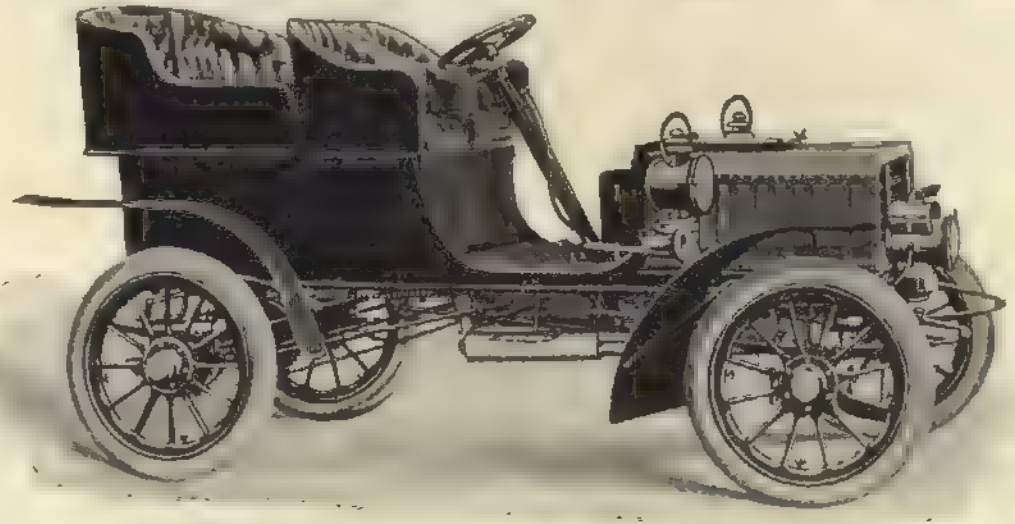
60 WABASH AVE. CHICAGO, ILL.

# CONRAD GASOLINE AUTOMOBILES

## THE FEATURE OF THE SEASON 1903

12 H. P.
Vertical Double
Cylinder
Engine in Front

Sliding Gear
Transmission



3 Speeds Ahead
and Reverse

Wheel Steer

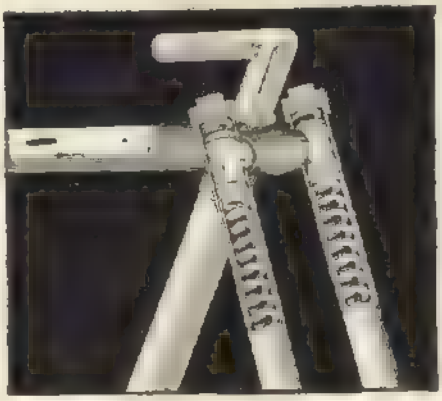
Emergency
Brakes

CONRAD GASOLINE TOURING CAR PRICE, $1250.00
SEE ALSO RUNABOUT, 8 H. P., TWO-SPEED, SLIDING GEARS, $750 00

## CONRAD MOTOR CARRIAGE CO., 1413-1419 Niagara St., Buffalo

AGENTS

New York City, Pennsylvania Electrical Vehicle Co. 148-152 W. 18th Street
Boston, Bates Brothers, 145 Columbus Avenue
Philadelphia, Pennsylvania Electrical Vehicle Co. 250-256 North Broad Street
Pittsburg, L. G. Martin Co. Forbes Avenue, opposite Hotel Schenley
Minneapolis, Northern Cycle Supply Co. 116 South 6th Street
Rochester, F. A. Hubbell, 66 East Avenue
Binghamton, Binghamton Automobile Station 295 Water Street
Detroit, W. H. Weber, 258 Woodward Avenue
Denver, Felker Cycle Co.



# THE "REGAS" SPRING FRAME

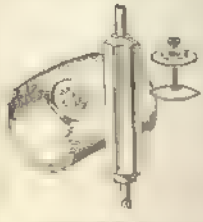
[illegible] luxury within the reach of all. Exemplifying comfort, and sold at a popular price.

Thousands of "Regas" Spring [illegible] and not a single dissatisfied customer.

## "Regas" Vehicle Co.

ROCHESTER, N. Y.
U. S. A.

Write for list of bicycle manufacturers using it.



## Six Sample "Giant" Plugs and Tool, for 25 Cents

A great [illegible] quarter's worth. [illegible] Motor Boat [illegible] Write for [illegible] Jobbers should ask [illegible] rubber for more.

THE PNEUMATIC TIRE PLUG CO.
BOX NO 60 DANBURY CONN

Price $500

"Covert Motorette"

**Neat, Comfortable, Efficient and Easily Operated**

Write for Catalogue.

B V COVERT & CO.
LOCKPORT, N. Y.

**WARNER SPUR DIFFERENTIAL GEAR**
For Automobiles

[illegible] Interchangeable [illegible] Ball Bearings [illegible] Interchangeable Sprockets

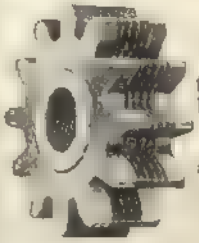
Warner Differential Gear Company
MUNCIE, IND., U. S. A.

# Rawhide Pinions

THAT ARE

**DURABLE**

the New Process kind.



We also make [illegible] gears, [illegible] spurs, [illegible] and [illegible]

Let us quote you prices.

*The* New Process Rawhide Co.

SYRACUSE, N. Y.

## Williams' Spark Coils

Are the most dependable coils made. They never break down when full to ignite the charge. That is why they are so popular with the long distance automobilists. Send for Catalogue

**E. Q. WILLIAMS**

329 S. Clinton St. Syracuse, N. Y.

## Phosphor-Bronze

**Brass and Special Compositions for Bushings Bearings, Bevel Gears, Connecting Rod Bearings, and all Working Parts**

We manufacture only the highest grade and guarantee satisfaction

**REEVES' "TUBAL" BRONZE**, strong as steel, for use where metal requiring great strength is desired.

Ultimate tensile strength per square inch, 70,000 to 80,000 pounds.

Elastic limit per square inch, 30,000 to 35,000 pounds.

Elongation in 2 in., 20 to 25 per cent.

Write for prices and particulars

**PAUL S. REEVES & SON, PHILADELPHIA, PA.**

## A Motor Cycle Brake

To meet the demand for a special brake for a special purpose, we have brought out the Duck Motor Cycle Brake, a heavier, stronger brake than our bicycle style—yet including all of its best features. Strong and efficient and a necessary equipment. Prices reasonable. Write for 1903 catalog of all our line of brakes and specialties

## DUCK BRAKE CO.

**335 BROADWAY, NEW YORK**

An old and well established company now making

## AUTOMOBILE MOTORS
—AND—
## BICYCLES

with large plant, desires to combine with some new and large company for manufacturing Motors and Automobile parts, or Automobiles. Good opportunity for new Automobile company. Address

**"OPPORTUNITY"**

Care of Cycle & Automobile Trade Journal

ALL ROADS ARE EASY WHEN THE

## STAR BALL RETAINER

IS USED

**With millions in daily use, it has stood the test for more than five years, and is adaptable to ball bearings of any kind. If you are users of ball bearings we would be pleased to hear from you and mail you our catalog with the latest information which we know would be profitable and interesting to you**

**THE STAR BALL RETAINER CO., Lancaster, Pa., U.S.A**

## Our Motors

Speak for Themselves

We have just completed and have now ready for the market two new styles of Single Cylinder and 10 H. P. Double Cylinder of the very latest design and have many novel features. Write for circular.

**Clemick-Hirsch Company**

**594 National Ave., Milwaukee, Wis.**

IMPORTER AND MAKER OF THE NEWEST AND BEST

## AUTO-MASKS GOGGLES AND FACELIERES.

WHOLESALE AND RETAIL GET PRICE LIST F

**E. B. Meyrowitz**

• NEW YORK • — • OPTICIAN •

104 EAST 23RD STREET

125 W. 42ND ST. — BRANCHES — 650 MADISON AVE.

MINNEAPOLIS — PARIS — ST. PAUL

1903 Model

## Kingston Carburettor

Manufactured by

**Byrne, Kingston & Co.**

**Kokomo Ind., U. S. A.**

GENUINE FRENCH IMPORTED CARS

# Darracq

## 1903 MODELS

Weekly Importations Insure Immediate Delivery

THE DARRACQ CARS HOLD MORE RECORDS THAN ALL OTHERS

8, 9, 12, 16, 20 and 24 Horse Power Touring Cars

Also DELIVERY BUSINESS WAGONS

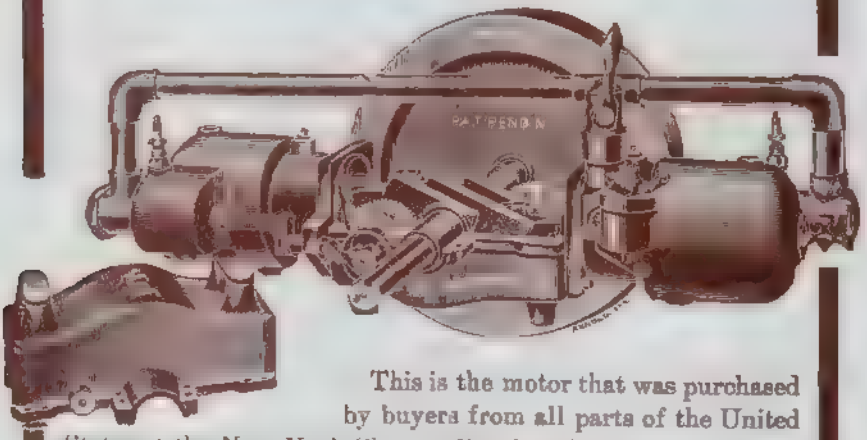
Darracq Motors Sold Separately Accessories Always on Hand

## American Darracq Automobile Co.

652-664 HUDSON STREET, NEW YORK

Boston Exhibit, Space No. 11 Philadelphia Exhibit, Spaces Nos. 40 and 49

# THE Brennan MOTOR



This is the motor that was purchased by buyers from all parts of the United States at the New York Show Purchased by buyers from

| | |
|---|---|
| SAN FRANCISCO, CAL. | CHICAGO, ILL. |
| ALBANY, OREGON | WASHINGTON, D. C. |
| SCRANTON, PA. | ST. LOUIS, MO. |
| DENVER, COL. | JAMESTOWN, COL. |
| HINGHAM, MASS. | PROVIDENCE, R. I. |
| CLEVELAND, O. | SCHUYLER, NEB. |
| CINCINNATI, O. | NEW YORK CITY |

BRENNAN MOTOR CO., SYRACUSE, N. Y. HINGHAM, MASS., Feb. 7, 1903.

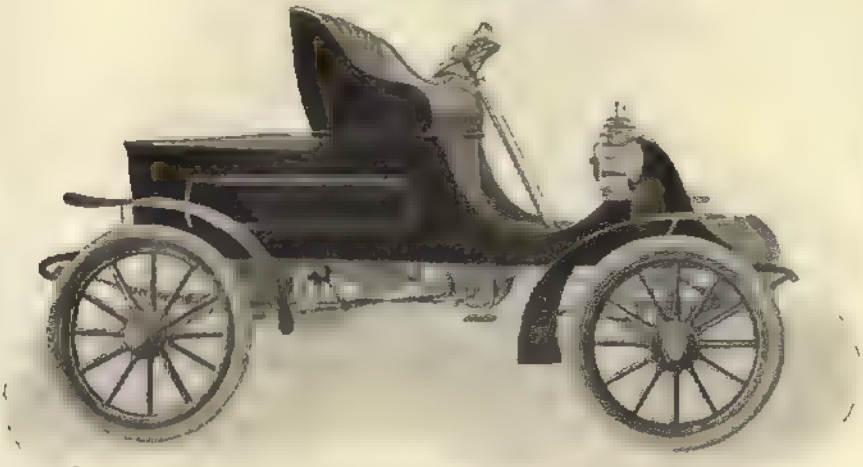
GENTLEMEN :—After carefully considering various makes of motors at the Show, we have decided on your motor En losed please find check for sample order on 8 H P. Motor with accessories. Ship without d lay. Yours truly,

FOR FURTHER PARTICULARS WRITE TO

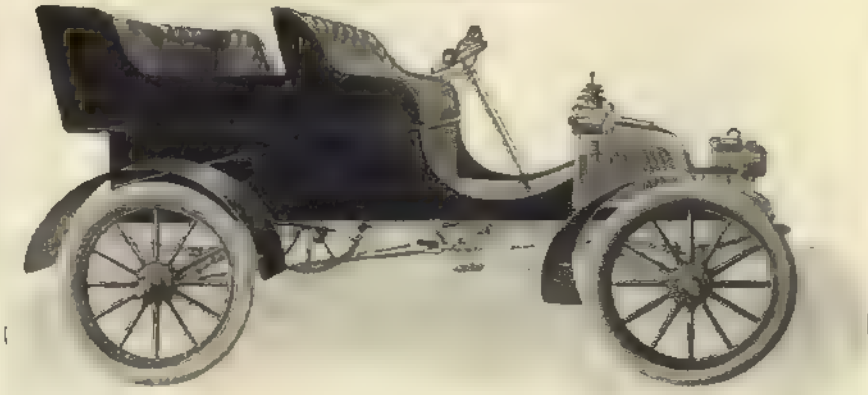
## BRENNAN MOTOR CO.

SYRACUSE, N. Y., U. S. A.

# ELMORE . . . AUTOMOBILES



**Runabout, $800**



**Tonneau, $1400**

An automobile should be judged by its practical tests. Any owner of an Elmore will tell you that for all around service and satisfaction, our cars are unequaled.

Catalog on application

## Elmore Manufacturing Co.

CLYDE, OHIO

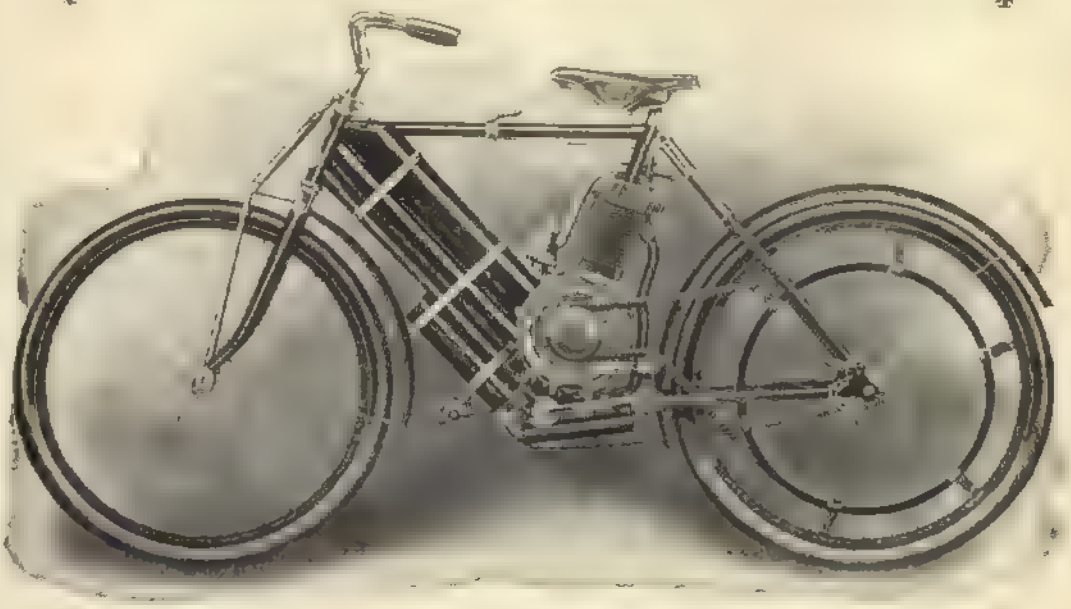
# The Voice of the People
## CANNOT BE IGNORED

**In louder and louder tones**

IT DEMANDS THOMAS AUTO-BI'S

**for pleasure and business**

**WHY?** Look at the picture below also note three great features: 1. Hygienic Cushion Frame 2. Truss Spring Fork (patent applied for) what comfort and durability, and 3. **Combined Steel and Leather Belt** (patent applied for)



## No Stretch, No Break, No Slip, No Wear Out

**WISE AGENTS**
**will secure our contract now**

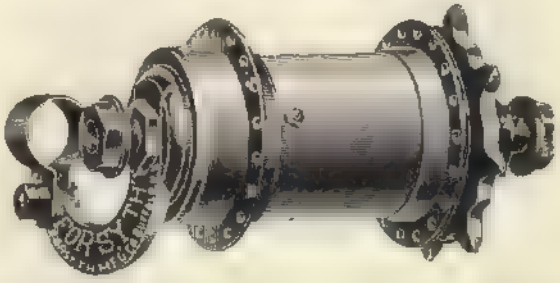
**ART CATALOGUE FREE**

## E. R. THOMAS MOTOR COMPANY
No. 1217 Niagara Street, - - BUFFALO, N. Y.

The Links in the
ENDLESS CHAIN
Are Rapidly Multiplying

Every Individual handling or using the

"FORSYTH"




COASTER BRAKE
in 1902
is its FIRM FRIEND

Investigation will convince any "Doubting Thomas" that "The Forsyth" is The Only Brake.

It's "Getting There," Sure

FORSYTH MFG. CO.
Buffalo, N. Y., U. S. A.

**FREE** TO DEALERS. 500 business cards with your name and address on one side, and gear table on reverse side. Read below

SECURITY NORTHERN CYCLE SUPPLY CO., MINNEAPOLIS.

# Security Single Tube Tires

GUARANTEED FOR ENTIRE SEASON OF 1903

Made in three sizes only 2" x 1⅝, 1¾, 1⅞. Security Tires are made of the best materials, by one of the oldest and most reliable rubber manufacturers in the country. Severe tests have convinced us that this tire is better than many tires which are sold at a much higher price

MAKE MONEY IN 1903. READ BELOW

We sell to only **one dealer** in a town, so that prices cannot be cut. You can make your retail price either $3.00 or $3.50, just as you choose

We pay freight or express both ways on replacements. No other company in the world will do this Price to dealers, sample pair $3.25 net. Seven or more pairs $3.00 per pair net. Cash with order unless you have good commercial rating. We prepay freight to any town where we have no agent on 10 pairs or more to any point within 1000 miles of Minneapolis, (in U. S.) On cash with order of 5 pairs we prepay freight to any point in the United States

We furnish free of charge 500 business cards with your name and address on one side including your full business announcement and gear table on other side. The cards alone would cost you $7.00

**Security** agents will make money in 1903 Because we will sell them bicycle sundries at a lower price than they can get them anywhere else in the country

Do not waste any time, but send at once, as we shall accept but **one** agent in a town

NORTHERN CYCLE SUPPLY CO. 116 South Sixth Street MINNEAPOLIS, MINN.

# HIGH GRADE BICYCLES

THE FOWLER THE MANSON THE SHERMAN

We make our own wheels.
They are known the world over
They have always given satisfaction.
We sell the best bicycles that retail at $25.00.
We sell the best bicycles that retail at $35.00.
We sell the best bicycles that retail at $50.00.
We have always made these three grades and values.
And we will keep on making them
Our bicycles are unquestioned for durability.
And for speed qualities.
We have ample capital and increased facilities

New Models for 1903. Write for Catalogue and apply for Agency NOW.

Fowler-Manson-Sherman Cycle Mfg. Co.

241-249 S. JEFFERSON ST., CHICAGO, ILL.

## FOR ALL PURPOSES

Dr Carey says, See Horseless Age, Doctors' Number, page 85.

[illegible]

The doctor's not up to date. He has never used a DURYEA one hand control. If he had he would have written those two verses. DURYEA vehicles are thoroughly practical, safe for every purpose. They can be handled perfectly by either hand. Send for booklets.

**DURYEA POWER CO.**

Hockley Street, Reading, Pa.

A Complete Practical Handbook on THE AUTOMOBILE

## SELF PROPELLED VEHICLES

J. E. HOMANS, A. M.

POPULAR EDITION, $2. A TIMELY BOOK.

[illegible] practical explanations in plain language, on the theory practice and [illegible] of all types Steam, Gasoline and Electric Vehicles.

A valuable reference book, operators, repairmen, manufacturers and students and autoists. Contains 640 pages, 500 illustrations and diagrams, handsomely bound. Complete table of contents and [illegible] sent free on request, or mailed for $2.00

THEO. AUDEL & CO. 63 FIFTH AVENUE
Educational Book Publishers NEW YORK, U. S. A.

## The NEW WHITE Steam Tonneau for 1903

### An Automobile Thoroughbred

[illegible] the Second Regiment Infantry Band of New York [illegible] [illegible] [illegible]

Some People are hard to please when choosing a Runabout. These people should write for a Catalogue of

# THE GENERAL

## FOR ALL SEASONS

The 1903 Runabout has many improvements and advantages not possessed by any other machine. Comfortable riding, no dirt, no vibration. Equipped with the power furnished by an 8 horse power Double Cylinder Gasoline Engine. Two forward speeds and perfect method of propulsion. PRICE, $900.00

**THE GENERAL AUTOMOBILE AND MFG. CO.**

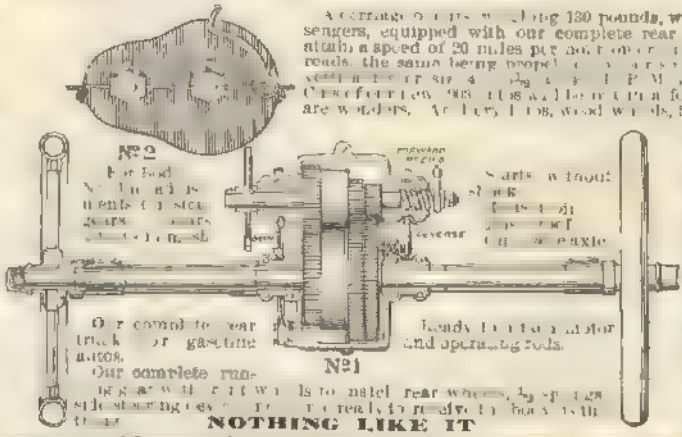
**CLEVELAND, OHIO**

## AUTOMOBILE BUILDING MADE EASY

By using the

## NIAGARA TRANSMISSION AND REAR TRUCK

SIMPLICITY DURABILITY



A carriage of this weight, weighing 130 pounds, with two passengers, equipped with our complete rear truck will attain a speed of 20 miles per hour on any earthy roads, the same being propelled by a 2 passenger motor weighing complete 250 pounds and developing 4 H P. At this speed the motor runs 900 revolutions per minute. Our motors are wonders. Air cooled, wood wheels, 5 H P, $80

Guarantee

No. 2

No. 1

Our complete rear truck for gasoline motor.

Our complete running gear with cast wheels to match rear wheels, leaf springs, steering gear, etc., ready to receive the body with the

NOTHING LIKE IT

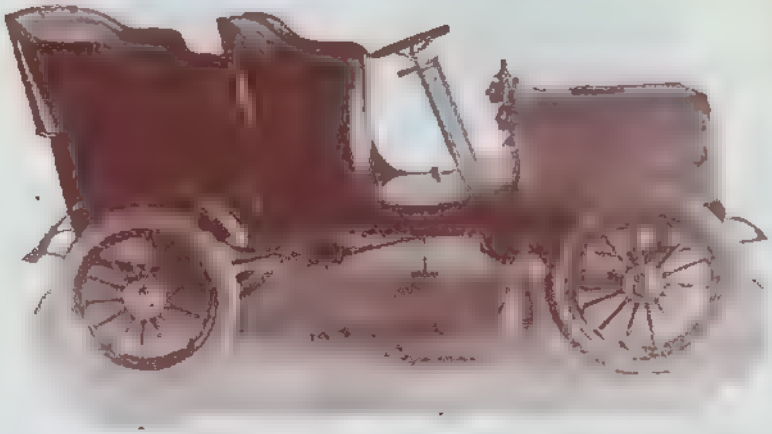
Ready for carburetor and operating rods.

Starts without crank

Two forward speeds, one reverse speed, sprocket and chain driving gear. Powerful brake. All parts for auto construction for sale by the

**WILSON AUTOMOBILE MFG. CO., Wilson, N. Y.**

# THE GENEVA
# Steam Tonneau



Simple in Construction, Elegant in Design, Safe, Economical, Speedy, No Vibration, No Noise, No Odor.

Horizontal Engine, Spur Gear, Direct Connection, No Chain, No Water Glass, Kerosene Burner.

Good for 150 Miles on One Tank of Water and Fuel.

Automatically Oiled Throughout Wood Wheels with Solid Bronze Artillery Hubs, Detachable Tires.

**THREE OTHER STYLES**

**Prices from $900.00 to $1750.00 According to Style**

The Height of Perfection in Automobile Car Building is Found in the

## "GENEVA" 1903 LINE

Write for Prices and Information.

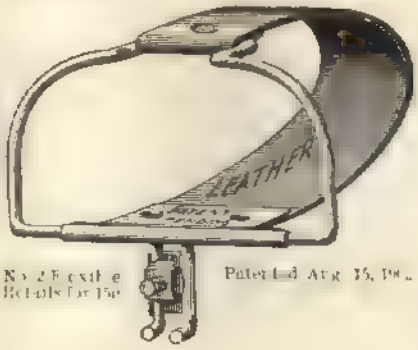
## The Geneva Automobile and Manufacturing Co.

Factory
GENEVA, OHIO

Store—230 Euclid Ave.
CLEVELAND, OHIO

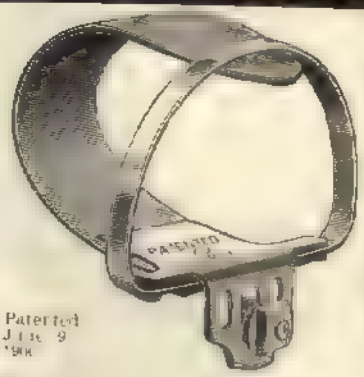
# COLE'S FLEXIBLE LEATHER TOE CLIPS

Cole's Adjustable Leather Toe Clips are built for Long Cranks as well as Short Cranks. They will not scratch the ground. There is no [illegible] and no scratching of the shoes. Fit any and all shoes.




No. 2 Flexible Retails for [illegible]

Patented Aug. 15, 1905.



Patented June 9 1908

No. 1 Adjustable as well as flexible Retails for [illegible]

ORDER FROM YOUR NEAREST JOBBER.

Take No Substitute

**G. W. COLE CO.**

141 BROADWAY

NEW YORK CITY

Makers of the *3 in One*

# PORT HURON STEEL and SCREW CO.

LIMITED

PORT HURON

MICH.

MAKERS OF

## HIGH CLASS PEDALS

Material, Workmanship and GUARANTEE UNSURPASSED

HURON

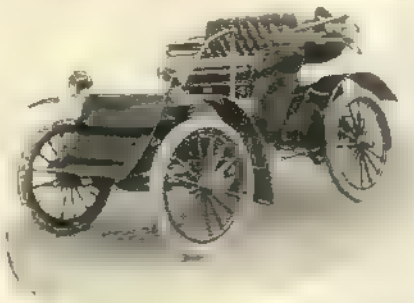
ST. CLAIR

Distributing Agents

Boston Cycle & Sundry Co., 7 Hanover St., Boston, for New England.
G. W. Nock, 128 North St., Philadelphia, for Phila. and vicinity

## The HAYNES-APPERSON

is the only automobile that has been consistently developed through 10 years of successful experience on American roads



The same development that has given long years of reliable service has given the Haynes-Apperson unequaled reliability, but because of the more modern construction which has been produced it is now a car of equal horse power that will last as long and be less costly, and ride as smoothly on American highways as this American product.

| | | | | |
|---|---|---|---|---|
| Runabout, | 7 | horse power, | 2 | passengers $ 750 |
| Phaeton, | 12 | " | 2 | " 950 |
| Surrey, | 12 | " | 4 | " 1,000 |

Delivery within ten days on immediate orders.
Ask for references and for our booklets.
See our Exhibit at the Chicago Show.

**HAYNES-APPERSON CO.**
KOKOMO, IND.

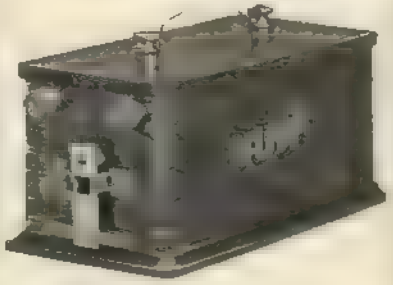
## America's Leading Automobile Wheel

**Phineas Jones & Co.**
Member of the National Association of Automobile Manufacturers
Founded 1855. Newark, N. J.

Artillery Wood or Steel Wire Automobile Wheels. Same materials and construction in either, but the wheels are respectively interchangeable. Steering devices made to suit both types. Crescent or flat base steel rims in all sizes and sections. New catalog mailed for the asking. Address

**I. A. WESTON CO.**
SYRACUSE, N. Y. JAMESVILLE, N. Y.

## Have you tried them?
## "HUFF" SPARK COILS



## AND PLUGS

SEND FOR CIRCULAR AND PRICES

**Crescent Machine Co.**
DETROIT, MICH.

# INDIAN MOTOCYCLE

"Hail to the chief who in triumph advances."—*Scott.*

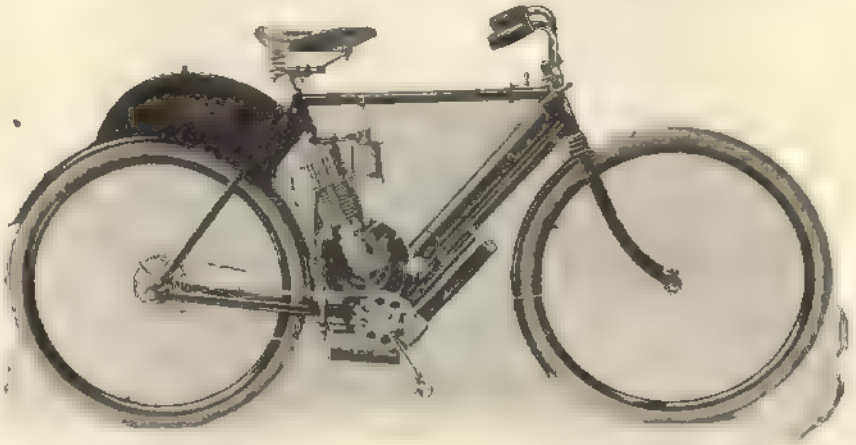
## We Are Now Delivering 1903 Models

This machine needs no introduction
Its record has been phenomenal
It is a fact, not a freak

## Agents, Here is Your Opportunity

Get Booklet "AS OTHERS SEE US"

Get BIG CHIEF CATALOGUE



## INDIAN CYCLES $25.00, $30.00 $40.00, $50.00

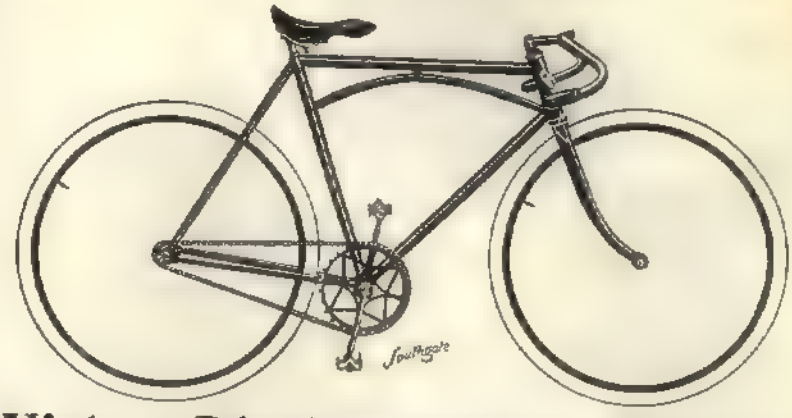
## Agents, Here is Another Opportunity

We Exhibit at the Philadelphia Automobile Show, Stand No. 22

## HENDEE MFG. CO.

SPRINGFIELD, MASS.

# The Iver Johnson Truss Frame
## IS A BICYCLE



# With a Distinguishing Feature

To-day, more than ever before, a distinctive feature enhances the selling value of a bicycle. There is too much of an everyday sameness about all other bicycles. New buyers want an

# IVER JOHNSON with a TRUSS FRAME

## Another Appreciated Feature

is the

## Iver Johnson Spring Frame
## Nothing Equals It for Comfort

These models are having an unprecedented sale, simply because "**leading**" dealers are buying a **leading** bicycle.

Send for new catalog and agency proposition.

## IVER JOHNSON'S ARMS & CYCLE WORKS

New York Office
No. 99 Chambers Street

FITCHBURG, MASS.

BAKER & HAMILTON
Sole Pacific Coast Distributors

SAN FRANCISCO, SACRAMENTO

# THE SEARCHMONT

THE SEARCHMONT THE SEARCHMONT

## The Type VII Searchmont

*American Engineers*
*American Ingenuity*
*American Methods*
*American Material*
*American Mechanics*
*American Workmanship*
*American Brains*
*American Money*

combined with

*American Enterprise*

have produced

## AMERICA'S LEADING AUTOMOBILE

and the price is

**only $2500**

***Not $5000 or $10,000***

It will pay you to investigate the New SEARCHMONT before purchasing elsewhere

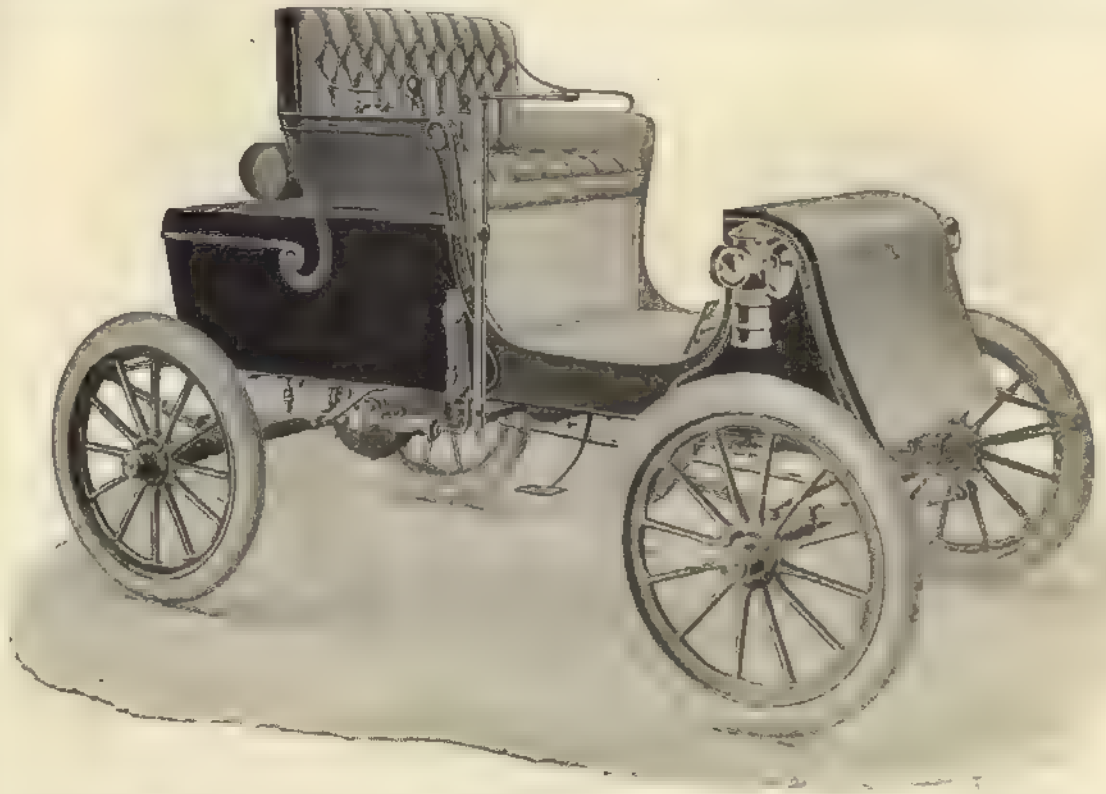
## Searchmont Automobile Co.

PHILADELPHIA, U. S. A.

**AGENTS:**

JOHN W. NAVARRE, New York and Brooklyn
H. J. SLAFT, Boston
THE ENSIGN CO., Cleveland
CLEVELAND AUTOMOBILE CO., Cleveland
ROCHESTER AUTOMOBILE CO., Rochester
W. L. WELLER, Detroit

THE SEARCHMONT



The...

# JAXON
## Steam Surrey

**Price, - $975.00**

**Steam** is the best [illegible]

**Steam** has made the best showing in all the recent automobile trials.

Our engine is a model of simplicity, 6 H. P., 3 cylinders, absolutely noiseless, [illegible] and reversible at all times.

Has all the best features of other steam cars and many practical improvements.

**Write for full particulars and Catalog**

JACKSON AUTOMOBILE COMPANY, Jackson, Michigan

# Riding Uphill Made Easy

## The Coming Bicycle Bearing!

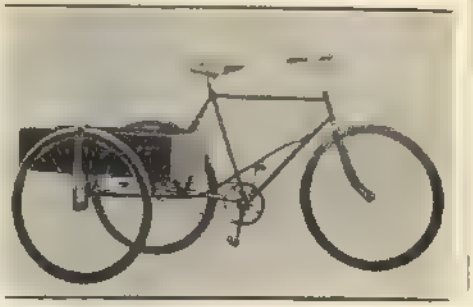
We now have the Wright taper roller bearing manufactured for bicycles.

Line instead of point contact as in ball bearings

A perfect free race. **Easily adjusted** by anyone and **Practically Indestructible.** Demonstrated by use to be the lightest running bearing ever devised

Price reasonable Send for our bicycle catalogue and also for electrotype for your 1903 catalogue.

**Wright Taper Roller Bearing Co.**
**809 Mutual Life Building, Buffalo, N. Y.**



## A WHOLE DELIVERY WAGON

**Can be Attached to any Bicycle in Two Minutes**

EVERY JOBBER SHOULD CATALOG
EVERY MERCHANT SHOULD USE IT

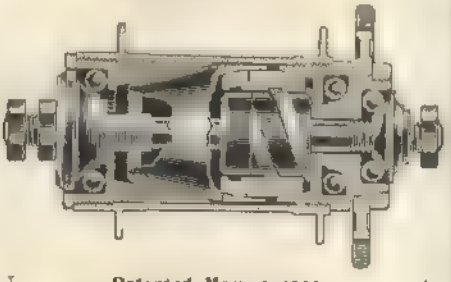
*Write for Descriptive Matter*

**THE KELSEY CO.**
**Buffalo, N. Y.**

**The Atherton Coaster Brake**

NEVER GOES WRONG NEVER GETS OUT OF ORDER HAS A CLEAN RECORD NOT ONE COMPLAINT. HAS LESS PARTS AND GREATER STRENGTH THAN EVER BEFORE KNOWN

**Examine This Cut**



**Patented May 13, 1902**
TWO YEARS OF CAREFUL TESTING
NONE RETURNED OR REPAIRS
RIDERS, MANUFACTURERS, JOBBERS ALL SAY,
"IT'S THE BEST BRAKE ON EARTH"
SEND FOR CIRCULAR
FURNISHED IN 26, 28, 30, 32, 34 in.
CHAIN LINE

**THE BUFFALO METAL GOODS CO.**
**642 Linwood Ave., Buffalo, N. Y.**

# E. T. HARRIS

**531-545 West Fifteenth St.**
**Chicago, Ill.**

MANUFACTURER OF
STANDARD LINES OF

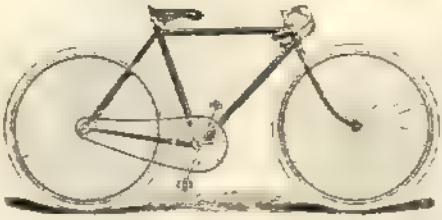
**Hubs, Hexagon Nuts**
**Adjustable Repair Cones**
**Axles, Sprockets, Etc.**

THESE GOODS ARE RELIABLE

The Compensation Sprocket Band for stretched chains is a great improvement.

WRITE YOUR JOBBER
FOR HARRIS GOODS

# BICYCLE AGENTS!



Much depends upon the line of wheels you decide to handle. Therefore, do not make definite arrangements for the season until you have written to us for full particulars. It won't take you long to ask us for information, and the chances are we can show you where it is to your advantage to handle **Light Cycles. Six Models, including a Chainless and Motor Cycle,** ranging from $30.00 to $225.00. Do not delay; write to-day.

**LIGHT CYCLE CO. POTTSTOWN, PA.**

## DON'T TRY

to do Bicycle Work without one of our

## REPAIR JACKS

We guarantee them satisfactory.

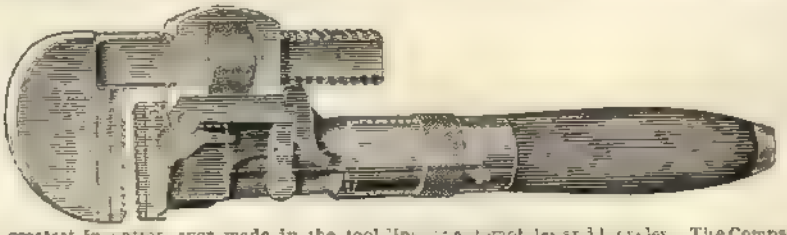
MANUFACTURED BY

**New England Cycle Supply Co.**

**Keene, N. H., U. S. A.**

*For Sale by All Leading Jobbers*

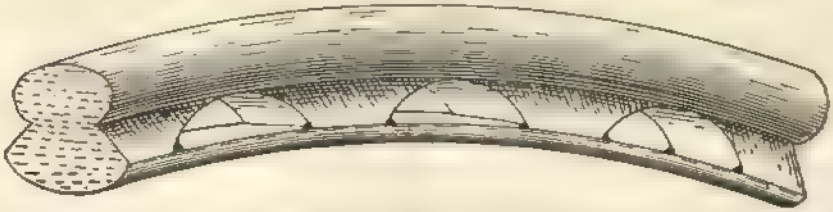
**COMBINATION PIPE WRENCH, MONKEY WRENCH AND PIPE CUTTER**



The greatest invention ever made in the tool line for automobiles, motor cycles and all cycles. The Company is incorporated and needs $5,000 additional capital to turn out the large number of orders on hand. Money is secured by preferred stock paying 6 per cent per annum. One share of common, as a bonus, with each share of preferred sold.

**ROTHENBUCHER MFG. COMPANY, 328 Jerome Street, BROOKLYN, N. Y., U. S. A.**

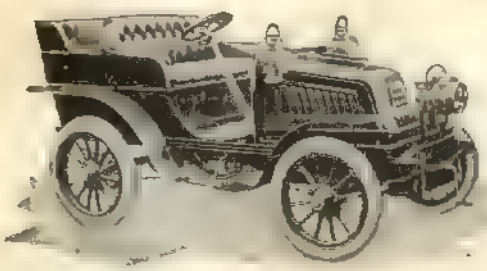
**THE TIRE THAT GIVES ENTIRE SATISFACTION**



**The St. John** **Non-Punctureable Bicycle, Motor Cycle and Auto Tire.** We guarantee the purchaser against [illegible] of tires returned. **Century Riders, Official Pace-Makers and Speedway Drivers** find [illegible]. Order our tire and do away with **pumps, punctures and needless expense.** Write for circular regarding the **coming tire** to

**THE ST. JOHN RUBBER TIRE CO.** Tel. 3617 and 3618 BROAD **116 Broad Street, New York**

# The Kensington



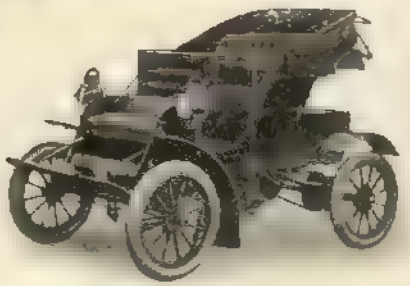
The Kensington is equipped with double vertical cylinder motor of 12 H. P. on front axle, flexible shaft instead of chain, and all the best features. It has made the mile in 1 min. 16 sec. and climbs the steepest hills. It is a durable touring car, built for American roads, and one upon which you can depend.

...THE...

## Kensington Automobile Mfg. Co.

BUFFALO, N. Y.

# WATERLESS KNOX



Its great popularity and success last year was due to the satisfactory working of its air-cooled engine and the simplicity, durability and strength of all parts. The 1903 Car has been greatly improved in every detail. Send for catalog and testimonials.

## KNOX AUTOMOBILE CO.

SPRINGFIELD, MASS.

NEW YORK AGENCY 146 W. 39th St.
WESTERN AGENCY National Automobile & Manufacturers Co., 12 Fremont St., San Francisco, Cal.

No the[illegible] can be [illegible] Expense as result [illegible]

# The Lattina Cellular Tire

over[illegible] the[illegible] without sacrificing the advan[illegible]

Printed matter and full particulars can be had by addressing

## THE RUBBER TIRE CO.

1215 Arch St., Philadelphia

# B 70

won a Blue Ribbon in the New York Buffalo Endurance Contest

# B 70

had 100 per cent Reliability credit and was first into New York in the Boston Reliability Contest.

# B 70

is one of our standard Wagons. It has its original Boiler, Engine and all vital parts. Its cyclometer showed over 8000 miles before starting on this contest.

## FOSTER AUTO. MFG. CO.

ROCHESTER, N. Y.

## SPECIAL

**MOTOR CYCLES**, guaranteed to be perfect in every way.

**MOTORS** 1¼ to 3 H. P. TAKE NOTICE—our 2½ and 3 H. P. Ball Bearing Motors are **Winners.**

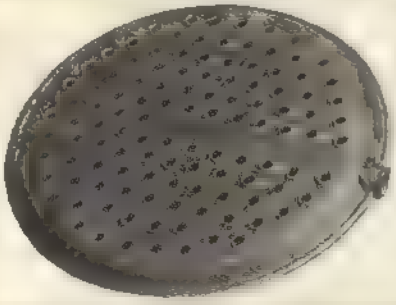
**MOTOR CASTINGS** with blue prints for 1¼ up to 3 H. P. Motors

**CARBURETORS**, neat, reliable, economical. No special gasoline required

**SPARK PLUGS.** Our own design for **Foreign or American** made Motors

**BELT WHEELS, MUFFLERS, ETC.** If interested it will pay you to investigate.

**C. E. BRADLEY MOTOR CO.**
268 DIAMOND ST., PHILADELPHIA, PA.

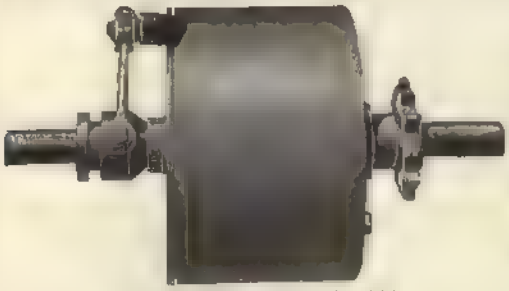


THE PAGEOL GAS PIPE AUTO BURNER
**Is The Best**

Because [illegible] material and method of construction [illegible] guaranteed not to warp, crack or leak around the joints and [illegible] produce and [illegible] combustion equal to any other burner. Our price is [illegible]

Send for descriptive circular to

**National Crude Oil Burner Co.**
DES MOINES, IOWA



PATENTED APRIL 9, 1901
Other patents pending.

## The Ball Transmission Gear

Two forward speeds and a reverse, made entirely of Spur Gears, cut from steel blanks, with hardened teeth, running in oil

No internal or bevel gears

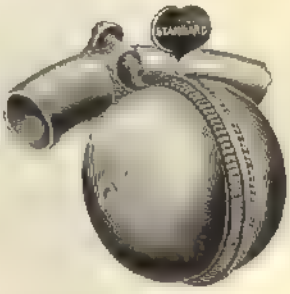
**NEW YORK GEAR WORKS**
56 GREENPOINT AVENUE
BROOKLYN, N. Y.

**APPLE IGNITERS**

## Will Pay for Themselves

By saving renewals of batteries
Send for 48-page catalog of "Apple" Dynamos, Magnetos, Coils, Plugs, Batteries and THE KING TIMING DEVICE

MANUFACTURED BY
**The Dayton Elect. Mfg. Co.**
DAYTON, OHIO, U. S. A.




# LIBERTY BELLS

Our Improved Chimes are the outcome of many years' studying the requirements of the rider. They are exactly the kind wanted, and will please the most exacting purchaser.

Dealers will greatly increase their profits in handling these Chimes, which have met with such a ready sale.

**Send for our 1903 catalogue. It will tell you a more complete story.**

## THE LIBERTY BELL CO.

**Sole Manufacturers** Bristol, Conn., U. S. A.

## EQUIPMENT

OF THE

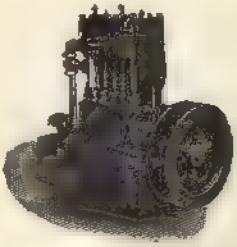
## Best Bicycles

THE PERFECTED

# Coaster Brake

**RIGGS-SPENCER CO., Manufacturers**

**ROCHESTER, N. Y.**



## PALMER Gasoline Engines and Launches

**Stationary and Marine Motors**

Two and Four Cycle, 1½ to 24 H. P

**PALMER BROS.,** COS COB CONN.

---

**AUTOMOBILE MANUFACTURERS**

We can furnish you with special forgings for Engines or Automobile parts promptly and accurately, and specialty to your designs. Send us blue prints or description of articles you require and we will take pleasure in quoting prices.

## W. H. Anderson & Sons

Tool Makers and Iron Workers

**Detroit, Mich.**

---

## SAY! LOOK HERE!

If you want a well plated Bicycle spoke try our

## STER £ LING

We are also still making the regular goods

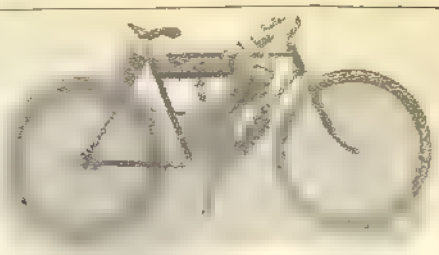
**THE TILEY-PRATT CO., ESSEX, CONN., U.S.A**

---

Our single and double helical spur gears for fast speed and efficient running gears will soon replace the clumsy expensive gears now in use. Why not use the best? Write for catalogue. Bevel and spur gears for automobiles, etc. Generated pinion teeth. Worm and cylinder gear cars a specialty. Send for catalogue.

**Boston Gear Works.** Purchase & Pearl Sts., Boston, Mass

---



**Mayo Successful Motors** [illegible] Motor Cycles, [illegible] Send for [illegible] Mayo Damper on these motors. Ask for our agency and prices. Mayo Motors Sold on Sight.

**MAYO DAMPER CO** Motor Mnfrs. Pottstown, Pa.

---

**Type "B" Motor**

drives a 1150-lb. vehicle 35 miles per hr. It weighs 42 lbs. Has all the good points of a modern practical motor

**Mohler & DeGress**

396 Webster Ave. Long Island City N. Y.

**Chas O Shain** Selling Agent New York

---

## Kelecom Gasoline Motors

## Autolyte Acetylene Lamps

## Automobile Horns

SEND FOR CATALOGUE AND PRICES

## A. H. FUNKE

**235 Broadway - New York**

---

SPRINGS PATENTED NOV 13 1900

## JOBBERS!

DROP US A CARD

## OLESON SPRING CO.

**TOLEDO, OHIO**

# WM. GARDAM & SON

45-51 Rose Street, New York

Send for our new Catalogue of

## Sensitive Drills

Full Line Adjustable, Multiple Spindle Drill **PRESSES**

*Special Machinery Built*

Estimates given. Correspondence solicited

## Voltmeters Ammeters Volt-Ammeters

Pocket size but large enough to read accurately and protected cases. Various ranges up to 130 volts and 40 amperes for testing all kinds of batteries, coils, circuits, etc.

L. M. PIGNOLET

78 CORTLANDT ST. NEW YORK

# SPRINGS

Small Springs of every description

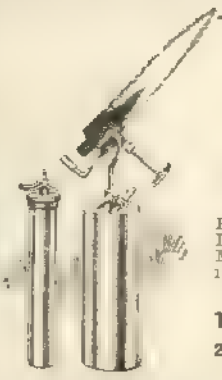
Large assortment of High Grade Cold Rolled Steel always on hand. Submit samples and let us quote prices.

NEW CATALOG JUST ISSUED

The WALLACE BARNES CO.

BRISTOL, CONN.

Est 1[illegible]



## The Turner Gasoline AUTO HAND TORCH

Reservoir, 1¾ x 5 inches. Powerful heat generator. Lights with a single match. Makes its own gas. You need one in the [illegible]. Price $2 each.

The Turner Brass Wks.

27 N. Franklin St., Chicago

# STARR AUTOMOBILE *and* BICYCLE BELLS

are unexcelled for durability, tone quality, excellence of finish and simplicity of mechanism. A thorough trial of our Bells will substantiate these claims, and you cannot afford to overlook our line when in the market.

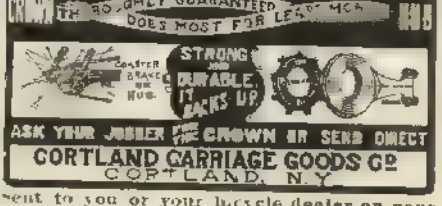
Manufactured by

STARR BROS. BELL CO.

East Hampton, Conn.

Catalog on application

# COASTER BRAKE




sent to you or your bicycle dealer on your order, subject to approved credit, on 10 days trial, $2.50

# An Oiler that Oils

THE ROCHESTER AUTOMATIC OILER is the only oiler for Automobiles, Motorcycles, Bicycles, Guns, Machinery, etc. Made in three styles and four sizes, 4-inch bent spout for light oils, and 9-inch bent spout for heavy oils. Fills through the spout. No waste of oil.

Gives you what you want. Puts it where you want it. Ask your dealer or, if he will not supply you, send to the

Rochester Automatic Oiler and Supply Co.

Rochester, N. Y.

# IGNITION

**"Vail Accumulators"**

In Portable Oak Cases

"CAN'T SHORT CIRCUIT"

Protected by a Fuse

TYPE "C" 4 v. 25 Amp. hr. $8.00

TYPE "D" 4 v. 40 Amp. hr. $12.00

DISCOUNT TO THE TRADE

Catalogue in Press

VAIL STORAGE BATTERY CO.

199 Chambers St., New York City

# THE 1903 "MERKEL" MOTOR CYCLE

MERKEL.

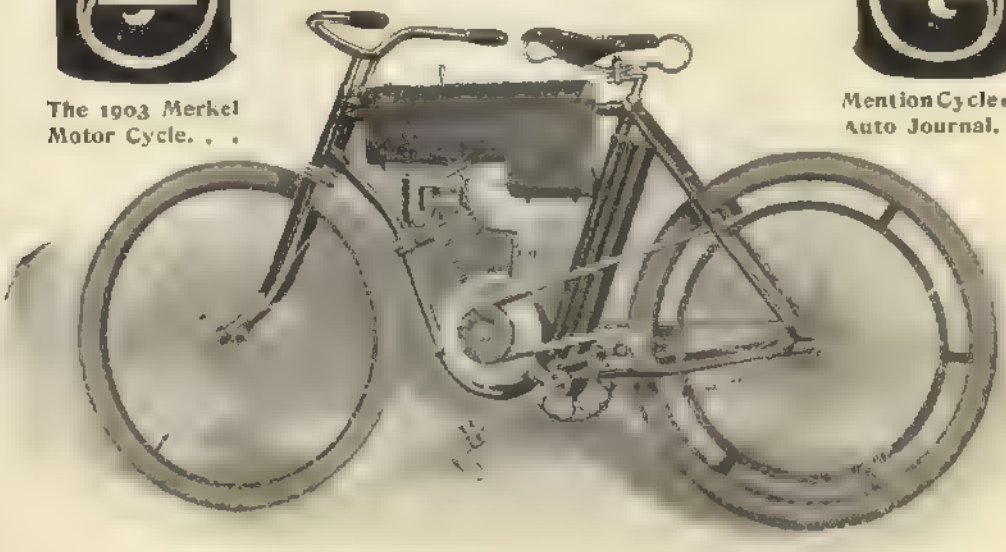
## *Mr. Bicycle Man:—*

Do you realize that you can sell **Merkel Motor Cycles** to business houses for the use of their representatives? A great many are using them now with great success. You can make money by selling them. Get after them now. Hurry up!

*The Merkel Mfg. Co.*

*MILWAUKEE, WIS.*

MERKEL.



The 1903 Merkel Motor Cycle. . .

Mention Cycle and Auto Journal. . .

## 1903 SADDLES FOR MOTOR CYCLES AND BICYCLES 1903

MODEL A

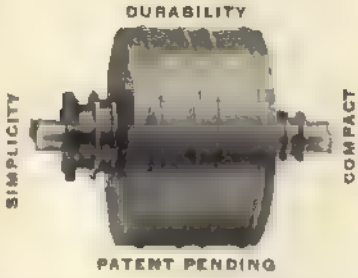
Model A Motor Cycle Saddle especially constructed where comfort is the chief consideration. It is [illegible] is [illegible] fine resisting, rich extra large coil springs at rear makes a soft and flexible seat.

**Get our circular and prices.**

**H. & F. MESINGER MFG. CO.**

1801-1803 FIRST AVENUE
NEW YORK

---




## Automobile Transmission Gear

**Two Speeds Forward and a Reverse**

Made in Three Sizes. Gears of steel meshing with others. [illegible] great [illegible] Write for prices.

**AMERICAN GASOLINE MOTOR CO.**

88 to 92 W. Jackson Boulevard

CHICAGO U. S. A.

---

# Do It Now!

Write for our 1903 Proposition on NOCK'S TWENTIETH CENTURY PUNCTURE PROOF and SPECIAL TIRES and full Catalogue of Bicycle Sundries.

**GEO. W. NOCK**

**126 North Fourth Street, Philadelphia, Pa.**

---

THE MOSLER **"SPIT-FIRE"** SPARK PLUG

Patented Apr. 12, '02, others pending

Wonderful Results – a trial is conclusive. Protected sparking points and protected porcelain. **Reversible Insulation—Double Life.** All parts [illegible] Indestructible, [illegible] guaranteed. **Energetic Ignition greater power.** No [illegible] to break. Any length of spark [illegible] Screw or [illegible]

**ARTHUR R. MOSLER**

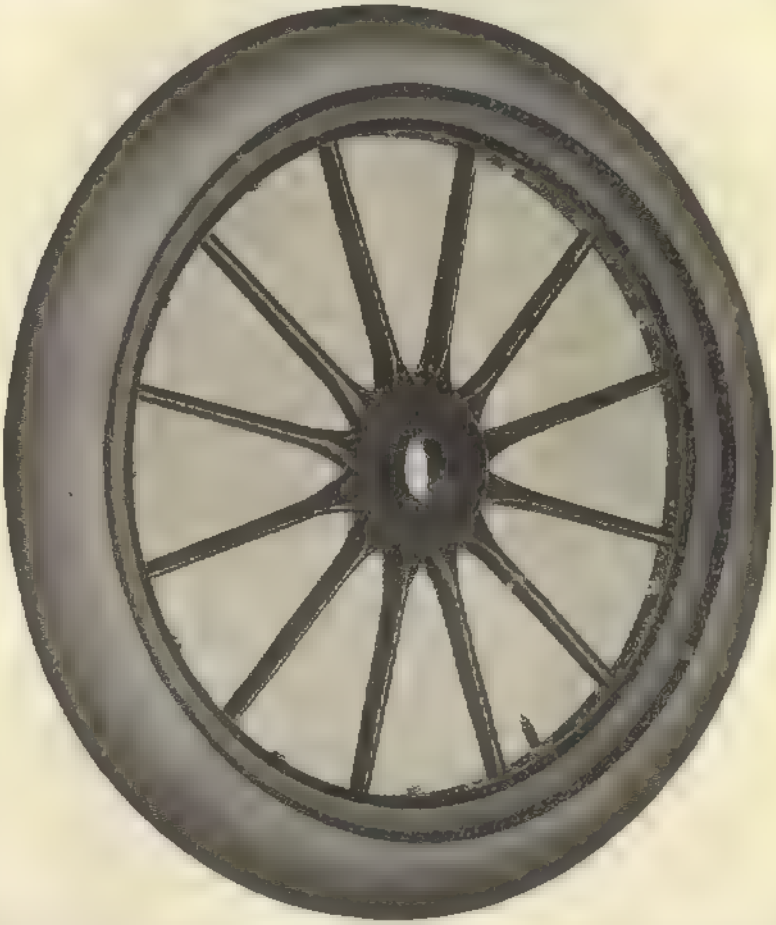
309 BROADWAY NEW YORK

**Mosler's Sight Feed Gasifier – a Perfect Carburetter**
**Mosler's Automobile and Marine Engines**

# THE NEW YORK PAPERS SAID

speaking of the great Madison Square Garden Annual National Show, that one of the noteworthy features of the Show was

## Midgley Tubular Steel Wheels

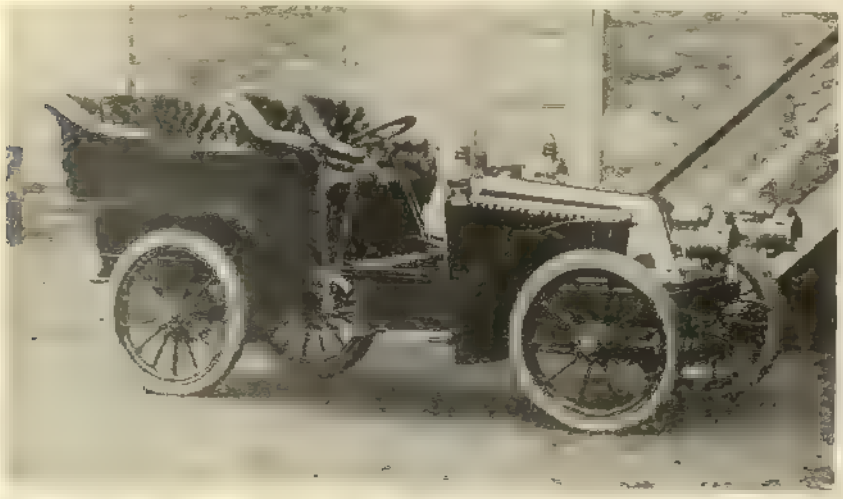


Two years ago it was wire wheels and a few wood ones, and last year it was a few wire wheels and more wood ones, and this year it was wood and Midgely—with Midgely crowding the leaders. That's why the great metropolitan dailies mentioned the important fact. Next year it will be Midgley and wood wheels. Just remember this prediction and send for literature

**The Midgley Mfg. Co.** COLUMBUS, OHIO —— U. S. A. ——

Western Selling Agent K. FRANKLIN PETERSON, 165 Lake St., Chicago

The 24 H. P. has 90-inch wheel base, 56 inch gauge, weighs 1900 pounds; speeds 16, 27 and 45 miles per hour; oiling is automatic [illegible] emergency brake there is a brake acting on the [illegible]. Three-foot pedals operate the [illegible] brakes, the clutch and speed ac-



[illegible] Two-cylinder Touring Car

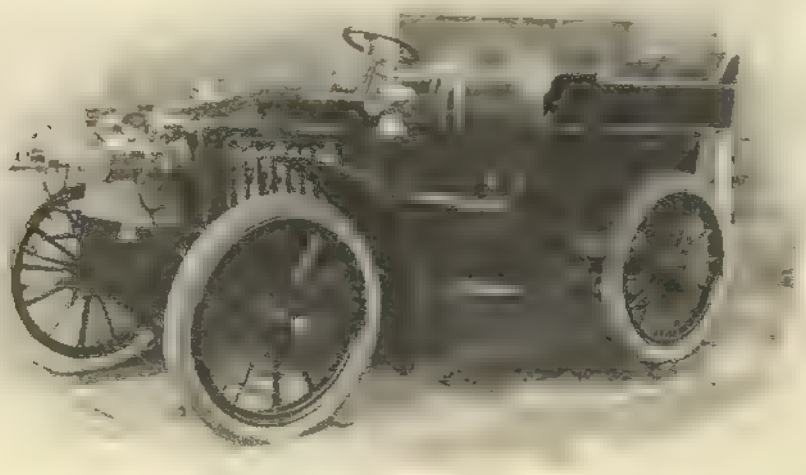
by pressure from tank [illegible] 20-gallon gasoline capacity, and [illegible] at $4600.

## The Fiat Automobile

The Fiat Automobile [illegible] represented in America by [illegible] Jr. of 131 West Thirty-first street, New York city. The motor is made [illegible] 16-H. P. are [illegible]

[illegible] respectively. Speeds up to 40 miles [illegible]. The current for the sparking is furnished by a magneto. The water tank is of tubular type and is placed in front of the motor. There is a fan back of the tank, so that the motor is air as well as water cooled. In the transmission gear the gears are always in mesh. They also [illegible] with 20 or 60 H. P. motors.

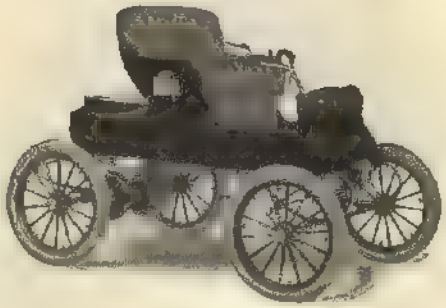
The 16 H. P. chassis lists at $4500; 20-H. P.



The Fiat Automobile

the motor averages about 12 pounds per H. P. 28 inch wood wheels, with metallic rims and hubs, are used both front and rear. Steering is done by hand wheel, and there are two levers, one for change of gears and the other operating an emergency brake. Besides the

chassis, $5000; 30-H. P., $6500. The 60-H. P. car is made only to order. Straight-backed aluminum body, with individual front seats, are furnished at from $500 to $700, and the King of Belgium style, with double rolled back, at $1000.



Model 100

An Open Letter

To Automobile Dealers:

You are in the business to make money. Your profits depend upon Automobiles sold by you in your territory. Why confine your selling efforts to any one kind of power? All powers have their advantages. The Electric embodies many features of practical worth with a minimum of trouble. NATIONAL ELECTRICS represent that which is best in the Electric field. To add our line, you are only using good business judgment. Electrics are going to sell. Why spend your time talking other powers when a customer wants a NATIONAL? The National agency will prove to be a most valuable asset and money maker. Think it over and write us about our prices, terms and catalogues.

NATIONAL MOTOR VEHICLE CO.

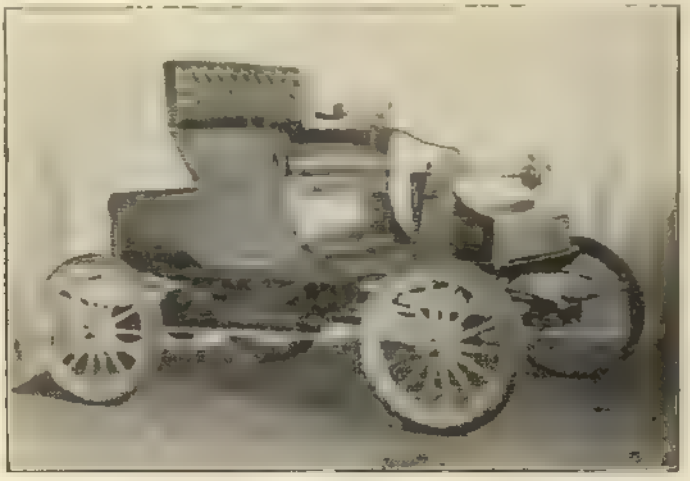
4000 E. 22d St., Indianapolis, Ind.

## Whitney Gasoline Cars

Whitney Automobile Comp[any] recently started into the manufacture of automobiles at Whitney Point, New York. They exhibited one of their runabouts, which [was] listed at $850. The Whitney car [is] equipped with a [two]-cycle, water-cooled gasoline engine, developing 6 H. P. at 1000 revolutions per minute. The cylinder is 4¾x6 inches, and the crank shaft is inclosed in a dust proof case. Ignition is by make-and-brake spark and the timing is accomplished by a foot lever, this lever giving a range of speeds from [5] to 20 miles per hour. The engine and all working parts are attached to a specially-constructed steel frame, which is put together with hot rivets, making an exceptionally rigid construction. The transmission gears are in two cases around the main engine shaft. They are of the friction clutch type and give two speeds forward and one reverse, all controlled by one lever. On the high speed all gears are stationary and the power is transmitted directly from the main shaft. The roller chain transmits power to the [rear] either wire or artillery wheels 28x2½ inches and clincher or single-tube tires. The [car has a] long wheel base and standard tread. The main steel frame sets upon four elliptic springs, connected by reaches. There are roller bearings on the rear axle under each rear spring and also near the middle of the axle. The latter bearing is attached to a strut rod of special design, which relieves the car of strain from the chain driving. Both tanks are placed under the rear of the car. An efficient muffler is provided, and by pressing the foot pedal the muffler can be disconnected and the engine allowed to exhaust freely in case all possible power is required. A large radiating coil is situated in the front of the car and water is circulated by a rotary pump driven by chain from the main shaft. The vehicle is equipped with two [band] brakes, one foot lever operating both brakes. The car can also be run down any ordinary hill at a slow rate of speed with the use of the brakes by drawing in the slow forward speed. A "float valve" carburetor with sight feed is used, which is controlled by a lever operated from the seat. The body can be removed from the steel frame by taking out six bolts and disconnecting ignition wires. Price of the car, with wire wheels and single-tube tires, is $800; with artillery wheels and clincher tires, $850. Top is furnished for $40 extra and fenders for $30.

## The Backus Motor Car

[The Backus Motor Vehicle Company, of Newark, N. J.] exhibited their car, which is [now] just placed on the market. One feature of this car is the cooling of the engine, the cylinder of which is provided with 16 bronze rings, containing rows of flat projections, which carry off the heat from the [cylinder, and when placed] the projections form spiral passageways [through] which air is forced by a blower [driven] from the engine. The throttling of the mixture and timing of the [spark are] controlled by a lever on the steering [wheel]. The engine on this car has a [single] large [cylinder], being 22 inches in diameter [and develops] 10-H. P. and is 5½x8 [inches]. The [highest] speed is about 33 miles per hour, the transmission giving two speeds forward [and] is started from [rest] is employed. The [engine] is oiled by a grease cup at the [front] of the car on the outside. A solid square front axle is used and a live rear axle with Brown-Lipe differential gear. 33-inch artillery wheels, with well-made hubs, which are manufactured by this company and are made of gun-metal. In fact, one of the strong



The Whitney Automobile

# THE THREE BEARS

For BEAR in your criticism of

## COASTER BRAKES

until you try a

## New Departure

Do not use one that will BAREly do the work, as they should be constructed with ample margin of strength . . . . .

This lays BARE our opinion. Why should we forBEAR to give it? . . .

It has been BRUIN for some time.

BEAR in mind that we manufacture

## The New Departure COASTER BRAKE

## The New Departure Mfg. Co.

BRISTOL, CONN., U. S. A.

*JOHN H. GRAHAM & CO.*

*113 Chambers St.*

*NEW YORK CITY, U. S. A.*

## No Accidents with

# The Oldsmobile

Mechanical skill and mathematical exactness eliminate the danger of the horse's uncertain temper, sudden fright and unruly disposition no "Runaways" with "*The Best Thing on Wheels.*"

The controlling mechanism is simple, strong and instantly responsive to the will of the driver, giving a sense of perfect security. There is no factor of uncertainty in the Oldsmobile—"*Nothing to watch but the road.*"

**Price, with Mud Guards, $650.00**

Equipped with a motor, running 30 miles on one gallon of gasolene, an improved mixer which guarantees a uniform charge and perfect explosion every time, and strong trussed axles. Call on any of our 58 Selling Agencies or write for illustrated book to Dept. 7.

## Olds Motor Works

**Detroit, Mich.**

# *Read this over, and then if you want the most profitable AGENCY write us*

THE PEN, not more than thirty years ago, did the writing of the world. Then, during the restless age, when the business world was seeking for power, labor, and time-saving inventions, came the typewriter—a wonderful jump from the goose quill to the machine. Imitation follows invention, and the following years saw many machines made using the first principles, writing out-of-sight—construction upside down. To-day it seems strange to us why the first writer was so made. Inventions are the result of either inspiration or accident. When the apple fell, Newton said gravitation—the law of force. When we pen-wrote we wrote on the top of the paper from the top. Why didn't the first inventor see this simple point? ***He didn't.***

To-day is not thirty years ago in the business world. The supreme and urgent law of commerce says it is the struggle of the giants—nation versus nation, brains against brains. The stern law of necessity says that we must have a parallel between the products we sell (when a fraction of a cent in a hundred dollars means much) and our office equipment.

The typewriter of thirty years ago would do, and did do, when there was no better. We are wise only in our own light. We have been ***getting*** along, just getting along. Now we must concede that, with the rush light, stage coach, and quill pen, the blind writer is a destined past memory.

Necessity, a ***very*** few years ago, spoke: the Oliver answered. Present business needs accepted, and harmony exists between what there is to do and what does it. The Oliver was made not as an accident, but in direct response to supply a great want.

It is easy to fill a known need.

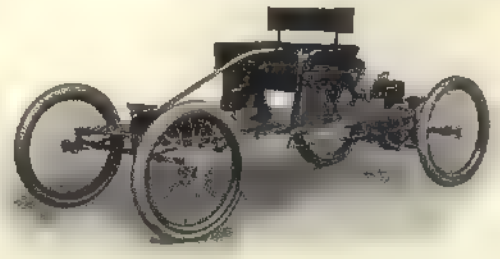
From Blind Writing the world has been girdled with Seeing. Not only typewriter users and buyers, but the leading makers have succumbed to the popular demand created by the Oliver. The Oliver has educated the world to ***Seeing*** what they do.

We cordially invite your interest. We can equip any office in a proper manner, no matter what its size or wants; save money, reduce operating expenses, and increase facilities. We are typewriter specialists, and guarantee if you will write to us you will be pleasantly surprised with our proposition.

## *THE OLIVER TYPEWRITER CO.*

***General Office, 91 Lake Street, Chicago, U. S. A.***

# The Orient Motor Buckboard



4 Horse Power Speed, 30 Miles per Hour. Weight, only 350 lbs.

**PRICE, $500**

The Lightest and Simplest Automobile in the World

Just the thing for either Business or Pleasure

WRITE FOR CATALOGUE

**WALTHAM MFG. CO., Waltham, Mass.**


## Pennsylvania Good Roads Legislation

Three separate "good roads" bills are before the Pennsylvania Legislature.

Senator Sproul has introduced a bill providing for the expenditure of one million dollars a year. The State will pay one-half the cost of the roads to be constructed, the townships and counties through which the improvements run paying the remainder.

Senator Roberts has also introduced a bill which provides for a State engineer of highways at a salary of $4000, three assistants at $2000 each and one clerk at $1500, and $1,000,000 is to be spent yearly for the improvement and maintenance of public roads. Local communities benefited are to pay 50 per cent. of the cost.

A third bill has been or is about to be introduced having been prepared by Arthur Kirk, of Sharpsburg, Pa. This bill was before the House of Representatives in 1901 and was not passed for some reason. Whether the next attempt will be more successful is, of course, not known. While the bill as a whole is probably a good one so far is it applies to good roads, Mr. Duryea, vice president of the American Motor League, advises us that it contains a slap at automobile users that is unquestionably unfair and uncalled for, and this section should be stricken out or amended before the bill is passed. It is Section 38, which provides that "every owner or user of an inanimate motive power propelled road traveling vehicle shall annually pay to his or her county treasurer (except makers) $20 on or before the first day of April of each year, or $3 per month for any fraction of a year, for which he or she shall be given a licensed figured plate by his county engineer, which must be conspicuously attached on the left side of the vehicle, so that its number can be easily read while the vehicle is in motion, and if the above license fee is not paid before the tenth day of each year 50 cents fine for each month or fraction of a month. The above license fee, with cost of collection and all penalty for non-payment of license shall be paid to the informer who made information that license for that year had not been paid.

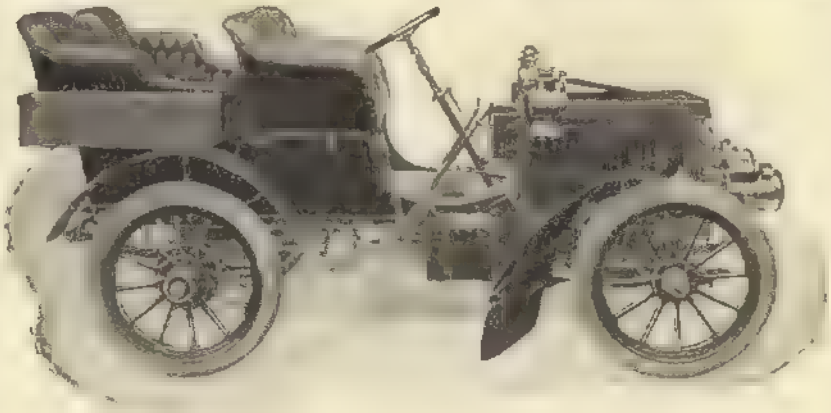
## January and February Numbers for Nothing

The January Number—the great "Buyers' Guide" Special, containing a classified directory of all the American manufacturers of automobiles, bicycles, accessories and parts.

The February Number—contains the most voluminous, most exact, most comprehensive account of the New York Show published.

Both these great special numbers will be sent free to any person who will send us $1.00 during March for one year's subscription to the "Journal." Trade Advertising & Publishing Co., 1213 Filbert street, Philadelphia, Pa. This offer does not apply to foreign subscriptions.

# ..The..
# Peerless



*The PEERLESS was the most attractive car at the New York Show. Its beautiful lines and mechanical superiority were the chief topics of conversation.*

## The Peerless Motor Car Co.

CLEVELAND, OHIO

New England Branch - - 178 Columbus Ave., Boston, Mass.

# Descriptions of Exhibits at the New York Show

[Continued From February Number]

## Desberon Gasoline Vehicles

Desberon Motor Car Company, Fifty-first street and Twelfth avenue, New York city, showed their well-known Desberon Gasoline Cars. The Desberon Type C is furnished with single seat or with tonneau. The Desberon, without tonneau, weighs 1100 pounds and has a basket attached behind the seat, when so ordered. Price is $1400, and basket, lamps and horns are extra. It is equipped with a two-cylinder, 7-H. P. engine and a sliding gear transmission, giving three forward speeds and reverse. The drive is by bevel gear. Wheels are of wood, 28 inches in diameter, and shod with single-tube tires. The car will run at 25 miles per hour.

This car, with tonneau, weighs 1300 pounds and lists at $1750, lamps extra. Clincher tires will be furnished with this model if desired.

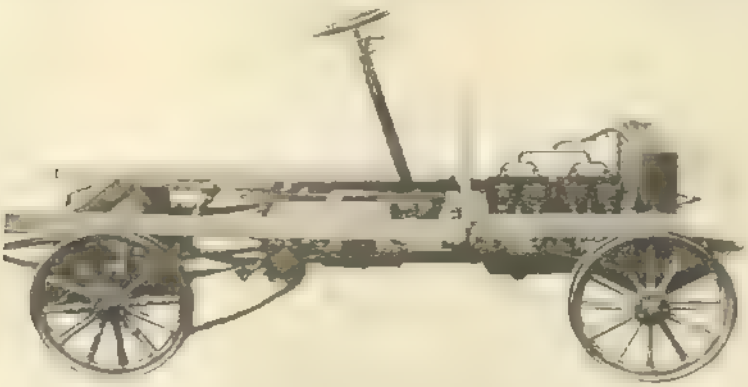
They have also a Style D, which they were unable to get out in time for the show. This model weighs 1700 pounds and has a tonneau body. The engine is of the four-cylinder type and gives 15-H. P. A sliding gear transmission is used and chains drive to both rear wheels. It is capable of a speed of 40 miles per hour, and is equipped with 30 inch wheels and clincher tires. Price is $3000.

They are also furnishing engines and parts made under Desberon patents. They offer single, double and quadruple cylinder engines, giving from 3¾, 7 and 15-H. P. respectively, at $125, $300 and $650. They also offer a two-speed and reverse transmission for 4-H. P. at $100; a three-speed gear for 15-H. P., for bevel drive, at $250, and same, for chain drive, at $350. The Desberon Carburetor lists at $15, and their Muffler at $10.

## The Central Automobile Co.

Central Automobile Company, 1684 Broadway, New York city, showed the latest models of Mors and Peugeot cars, besides a chassis of the 18-H. P. Mors. The Mors cars are of 8, 11 and 18-H. P., and the Peugeot 10-H. P. This company is also prepared to make prompt deliveries of Mercedes and Renaults.

A new feature of the Mors are mechanically-operated inlet valves on the side of the cylinder. A new honeycomb form of radiator is used, combined with a fan driven from the main engine shaft. A governor of the ball type driven directly from the cam shaft gives an automatic control of the engine, and this may be corrected by hand-adjusted means. A pedal operated accelerator is also provided for cutting out the governor and accelerating the speed of the engine. The regular pressure feed lubricator is used, its pressure being supplied by a shunt from the muffler. A new and very simple form of sliding gear is used, giving four speeds forward and a reverse, with a direct drive through a positive clutch on high speed. The several speeds are controlled by a single lever. The regular brake is on the drum of the countershaft, while the emergency acts on the drum of the rear sprockets.



The Desberon Chassis Type C.

## The Fredonia

The Fredonia Manufacturing Company, Youngstown, O., exhibited two models—a runabout, which was similar to those which participated in the New York-Boston run and which we described in detail in a previous issue, and a tonneau, with slightly lengthened wheel base and heavier engine. The runabout lists at $1000 and the tonneau at $1250.

# PIERCE CYCLES

STAR AND ARROW

Are still being made, and the splendid reputation earned during 12 years will in the future be more than justified.

## *What has The George N. Pierce Co. Done for Cycling?*

1st. Introduction and development of the Cushion Frame.

2d Introduction and development of the Cushion Frame Chainless.

3d. Combination of these models with Hub Coaster Brake.

4th. Introduction of Pierce Spring Forks.

5th. On Pierce Racers Frank L. Kramer has four times won American Championships.

**No high-grade Bicycle Agent can afford to be without the Pierce Agency. Agents wanted everywhere for the finest Cycles produced in the world**

## *The George N. Pierce Co.*

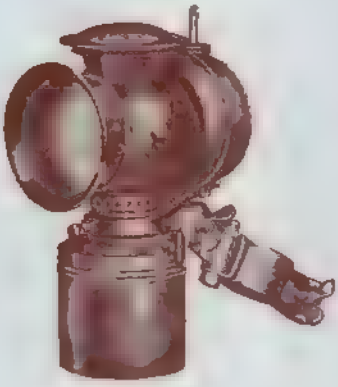
*Works and General Office, - Buffalo, N. Y.*

# MR. JOBBER

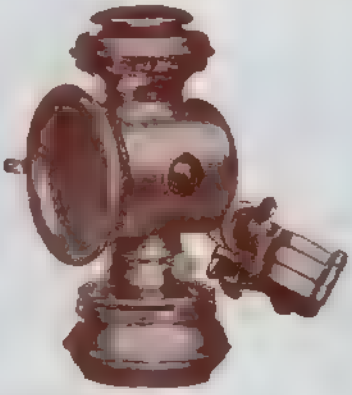
# Solar Cycle Lamps

Always Satisfy Dealers and Riders

GAS



OIL



## For 1903

**both *styles* are better than ever for you to *catalog, stock* and *push* with *profitable* results to YOU.**

If you have not seen our representatives or received our 1903 proposition, prices and electros, write us at once.

THEY ARE STILL "THE BRIGHTEST LIGHTS THAT EVER CAME OVER THE PIKE"

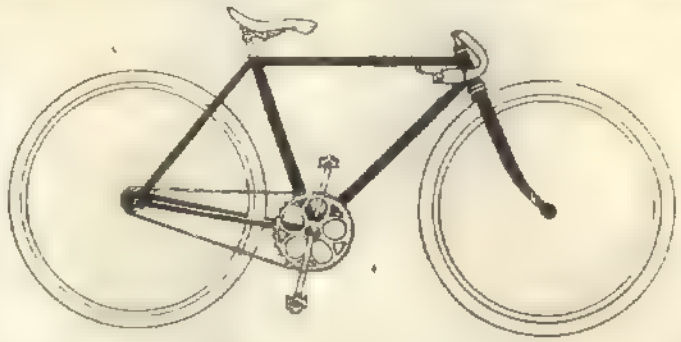
and the STANDARD of ACETYLENE GAS LAMPS because of our patented wick feed, which six years' use proves absolutely satisfactory

LET US HEAR FROM YOU

## BADGER BRASS MFG. CO.

KENOSHA, WIS., U. S. A.

1903 Models **Queen City Bicycles** Now Ready



$25.00 $40.00

*Highest Grade Equipment* *Fully Guaranteed*

PRICES RIGHT

**Universal Tires** **Universal Special Tires**

Jobbers in BICYCLES, TIRES *and* SUNDRIES

**F. A. BAKER & CO.,** 89 Chambers St. New York City

Patent Pending

The

**"Bann-Auto" Wheel**

O. B. Bannister
Patentee and sole owner

A perfect wheel for automobiles. The internal construction of the hub permits keying to any style axle or sleeve. It is a traction wheel, and just what you want. Send for illustrations and prices.

Made exclusively by

**Muncie Wheel & Jobbing Co.**

MUNCIE, IND.

# WHICH?
# JUDGE FOR YOURSELF

THE RACYCLE

IT'S ALL IN THE PUSH

ALL BICYCLES

The Racycle Sprocket Turns Between the Bearings.—PUSH EASY.

All Bicycle Sprockets Turn Outside the Bearings.—PUSH HARD.

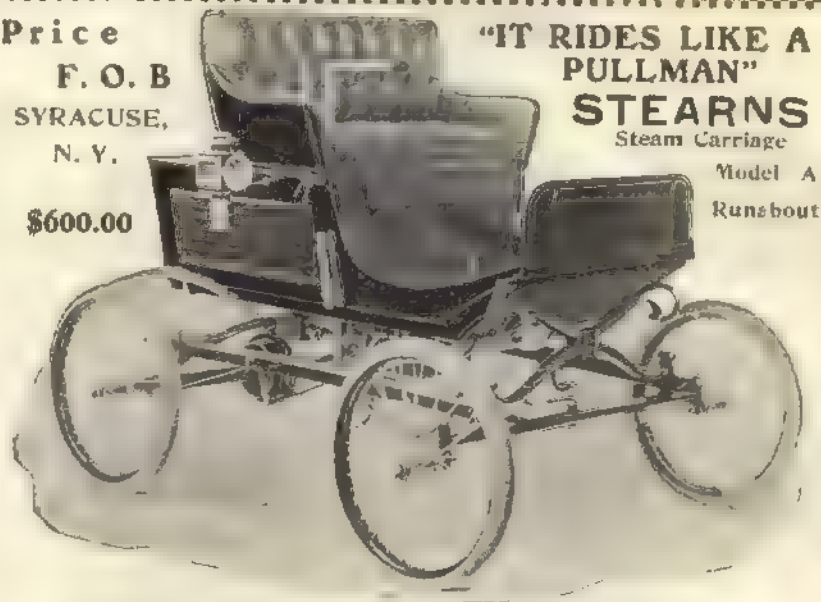
THE HEART OF A BICYCLE IS ITS HANGER.

## THE MIAMI CYCLE & MFG. CO.

MIDDLTOWN, OHIO

Price
F. O. B
SYRACUSE,
N. Y.
$600.00

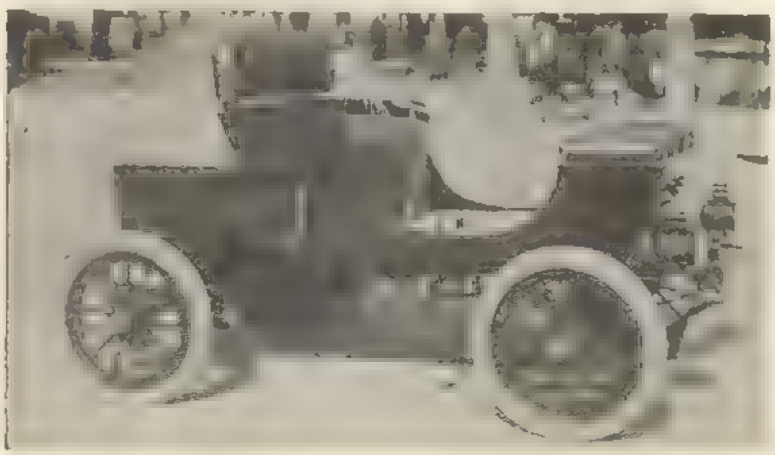
"IT RIDES LIKE A PULLMAN"
STEARNS
Steam Carriage
Model A
Runabout



One of nine Models. Illustrated Catalog on application.

STEARNS STEAM CARRIAGE CO., SYRACUSE, N. Y.

CENTURY TOURIST GASOLINE CAR
$750 7 H. P. $750



[illegible] created such a sensation in the automobile world and was the [illegible] of the [illegible] show [illegible] giving full particulars. Orders being placed for Spring [illegible]

GREAT AGENCY PROPOSITION

CENTURY MOTOR VEHICLE CO.
Syracuse New York

# BANKER BROTHERS CO.

## LARGEST AUTOMOBILE DEALERS IN AMERICA

**Sole Agents for Pennsylvania for**

PEERLESS [illegible]
AUTOCAR [illegible]
TOLEDO [illegible]
NORTHERN [illegible]
PIERCE—Motorette [illegible]
WAVERLY—[illegible]

**Sole Agents for Eastern Pennsylvania for**

THE WHITE—That wonderful steamer
ST LOUIS—Several types. The rig that runs

**ALSO**

**STORAGE, RENTAL AND REPAIRS**

Salesrooms { PHILADELPHIA, 629 to 633 North Broad Street
PITTSBURG, Baum and Beatty Streets
NEW YORK, 141-153 West 38th Street

# A SUCCESSFUL MOTOR CYCLE

IS

# EASY

TO

# SELL

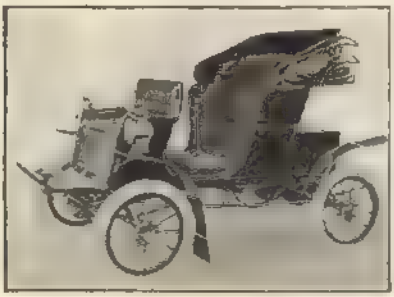
**MITCHELL MOTOR BICYCLES**
**MITCHELL AUTOMOBILES**

Our proposition is attractive. No sales lost during 1902 from delayed shipments. Send for Catalog

## WISCONSIN WHEEL WORKS COMPANY

**No. 12 Mitchell Street, - RACINE, WIS., U. S. A.**

AGAIN AT THE FRONT
THE
"STEVENS-DURYEA"



**Was one of the Popular Cars at the Chicago Show**

It is a most practical car for a doctor. It starts from the seat, has three speeds and reverse, and runs without

**NOISE OR VIBRATION**

EASY TO OPERATE AND ECONOMICAL

Equipped with a two-cylinder, opposed, 7 horse power Motor.

**PRICE AT FACTORY, $1200.00**

J. Stevens Arms & Tool Company
No. 700 Main Street
CHICOPEE FALLS MASSACHUSETTS

Automobile Parts

STEERING WHEELS,
BALL RACES,
TRANSMISSION GEARS,
CARBURETTERS, PUMPS,
MULTIPLE OILERS, RADIATORS,
ETC., ETC.
SHEET METAL STAMPING, DIES,
SPECIAL MACHINE WORK.

Correspondence Solicited

OTTO KONIGSLOW, Cleveland, Ohio, U. S. A.

*Dist. Agt., CHAS E. MILLER, 97-101 Reade St., N. Y.*
*K. FRANKLIN PETERSON, Sales Agt., 165 Lake St., Chicago*

We produce the only

# Seamless

# Seat Post

on the market

*Write us for Prices.*

## THE STANDARD WELDING CO.

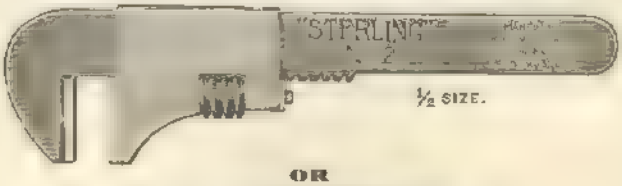
CLEVELAND, OHIO

Eastern Sales Agents
MILLER, THORNBURG & CO.
135 Broadway, N. Y.

Western Sales Agent
L. F. McCLERNAN
723 The Rookery, - Chicago

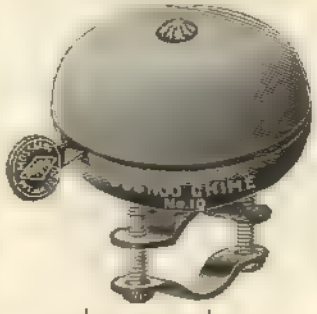
WHAT'S IN A NAME?

A WORLD OF MEANING WHEN APPLIED TO A




½ SIZE.

OR



bearing the name of

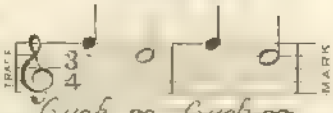
FRANK MOSSBERG COMPANY

Our Wrenches are made of high grade special steel and case-hardened. For strength, elegance of design and finish they are unsurpassed

We speak for our Wrenches, our Bells speak for themselves in tones loud, clear, musical

FRANK MOSSBERG COMPANY

ATTLEBORO MASS



# Our Catalogue

## IS READY

IF you haven't received it yet, better drop us a postal at once. Our goods and prices are very interesting. Our stock of supplies and equipments for bicycles is very complete, and it will pay every hustling bicycle dealer or repairer to get thoroughly acquainted with us. *Write now.*

**JOS. STRAUSS & SON**

**BUFFALO, N. Y.**

*The* **"S & J"**

is the Motor Cycle you have been waiting for
Built as a result of long experience
It is practical in every respect and sells at the reasonable price of $150.00.

**The S. & J. Motor Cycle**

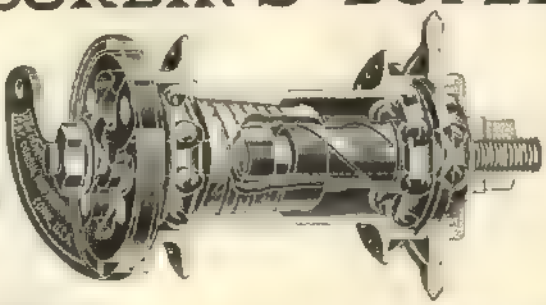
is intended for everyday use, and not as a plaything. It can be ridden thousands of miles, and always be depended upon to give satisfaction. Our muffler has an extra exhaust port which makes it absolutely noiseless. This feature has made our machine known as the "S & J Noiseless Motor Cycle." Write us for specifications. We shall be ready for delivery by February 20th.

**SYLVESTER & JONES**

**East Weymouth** **Massachusetts**

# CORBIN'S DUPLEX

1903 Model



NEW DEPARTURE COASTER BRAKE

28

28

Our Duplex Braking Clutch

**IT CANNOT SLIP**

**Fits any Wheel, Chain, Chainless or Motor Cycle.**

WILL BE THE 1903 FAVORITE

Our Duplex Braking [illegible] ing brake shoes [illegible] of material that will not stick grind or squeak.

Made by

**P. & F. CORBIN**

**New Britain Conn.**

P. & F. CORBIN of NEW YORK [illegible] Murray St

PHILADELPHIA [illegible]

[illegible] 104-106 Lake St

# THE 1902 CHAMPION

# The Yale Bicycle

**A Representative Wheel sold by Representative Dealers**

## A FEW LIVE AGENTS WANTED

1903 YEAR BOOK READY

# THE KIRK MFG. CO.

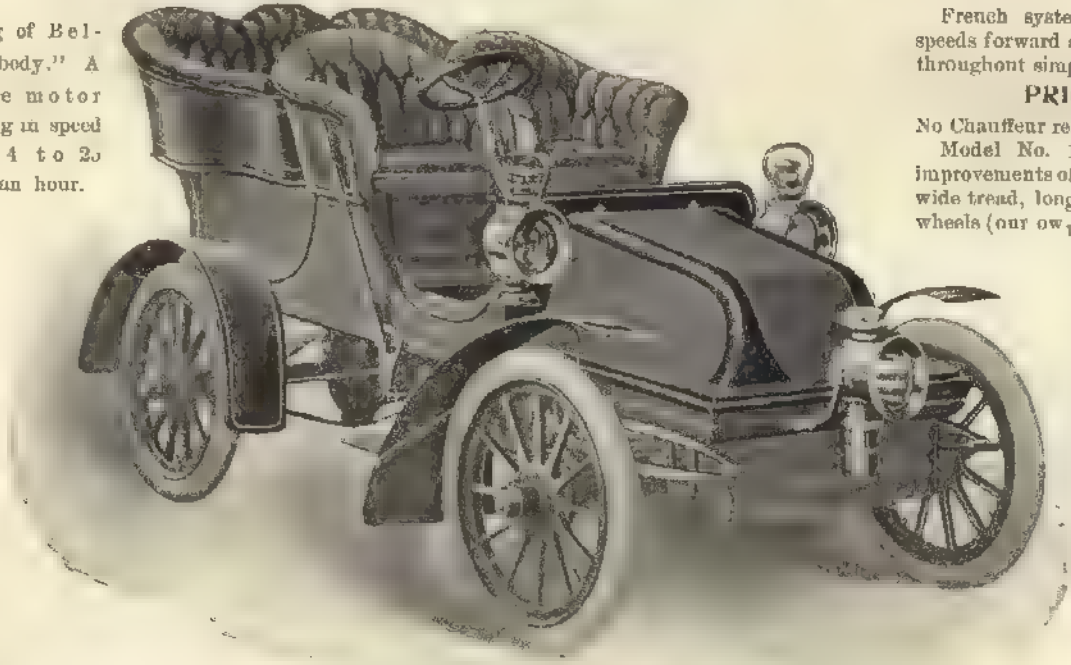
NEW YORK TOLEDO, O. BOSTON

# A SEARCH LIGHT FLASH

will reveal the altogether superiority of

# THE THOMAS TONNEAU MODEL No. 18

"King of Belgium body." A flexible motor varying in speed from 4 to 25 miles an hour.



French system of transmission, three speeds forward and reverse. Construction throughout simple and efficient

**PRICE, $1400.00**

No Chauffeur required to run this machine.

Model No. 18 carries all the proven improvements of the day, a few of which are wide tread, long wheel base, wood artillery wheels (our own special design), detachable tires, sight feed multiple pressure lubricator, jump spark and throttle control, slow and fast speed carburettor, and wheel steer.

This automobile will take all kinds of roads and climb any accessible grades.

Agents desired in unoccupied territory.

Will Exhibit at Chicago Show

**Branches**

NEW YORK, E. J. Edmond 52 West 43d Street

BOSTON, C. S. Henshaw, 14 Columbus Ave.

**E. R. THOMAS MOTOR COMPANY,** (BUFFALO AUTOMOBILE AND AUTO-BI CO.) **BUFFALO, N. Y.**

a forward position by the helical spring, F2, and can be withdrawn by a fork engaging in the groove, F8. It is provided with teeth, F9, forming a sector at its front end, and these engage in a similar quadrant, F4, which is carried by a bell-crank-lever as seen. When the sleeve, F7, is moved longitudinally on the shaft, F1, the spiral path between them causes it to rotate about the shaft, and the teeth, F9, then make the bell-crank-lever rock about its pivot. The bell-crank-lever expands the ring, F3, or allows it to contract.

Fig. 4 gives a view of one pair of cylinders

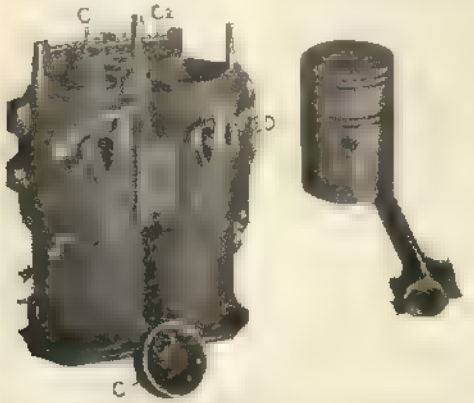



Fig. 4—The 1903 Mercedes—a Pair of Cylinders, Showing Inlet Valves, and the Piston With Connecting rod

of the engine. The most noticeable feature is that the inlet valves, which are of very large size, are arranged centrally in the cylinder heads, one of them, C1, is seen in place though it is exposed to view, and the other, C, is completely removed, and is displayed in an inclined position against the casting. They are not, as might be supposed, atmospheric valves, but are actuated positively as heretofore, though, owing to their different position, certain changes in the mechanical arrangements for doing this have been introduced. One advantage of this arrangement is that it gives increased space for the application of the two forms of ignition employed in the new engine. The exhaust valves are apparently arranged as usual, and are beneath the yoke, C2. The piston and connecting rod are shown on the right of the figure, and it will be seen that four piston rings are fitted.

The new engines employ two forms of ignition. One is the old magneto, and the other the new Mercedes ignition, in regard to which, mainly for the reasons we have above specified, considerable secrecy is maintained. We are, however, informed that ignition plugs and a magneto are made use of, but no induction or intensity coil is employed.

The axles in the 1903 cars are of T section instead of being round as in last year's vehicles, and the rear wheel brakes, which are exceptionally powerful and noiseless, are actuated by wire ropes. These brakes are of the internal type.

Ball bearings are employed throughout the gear-box

The radiators are of the honeycomb type, but are so constructed that the surface exposed to the air is considerably increased. The tubes are arranged much closer together, and something like 5000 of them are employed The space between the tubes is about ¼ mm.

The carburetor forms the subject matter for a patent, and but little data concerning it is available. It is, however, of smaller size than at present, and is fitted with a butterfly throttle-valve. It is said to permit of even lower engine speeds than before, and to render the engine still quieter. We learn, on the authority of our German contemporary, the Allgemeine Automobil-Zeitung, to whom we are indebted for the photographs, that the lift of the inlet-valves is variable.

In addition to these cars the company are constructing a few 90 H. P. vehicles, in which the engine is mounted amidships, and the driver's seat is over the rear wheels; their weight does not exceed 1000 kilogs.

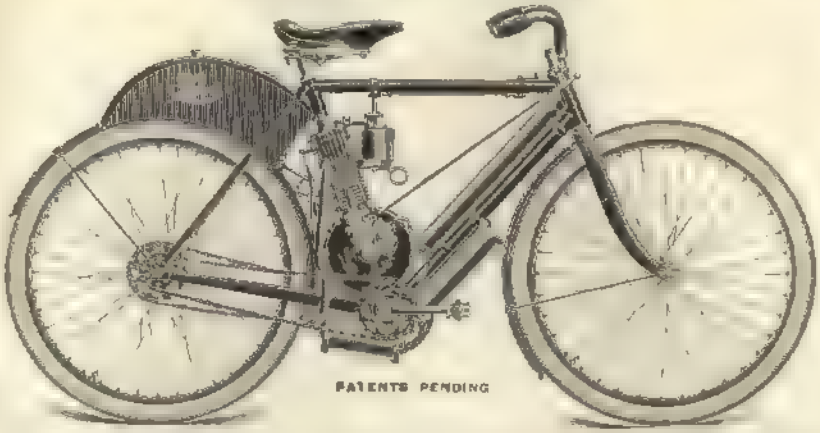
---

# The New Krebs-Panhard Carburetor

All 1903 Panhard automobiles are fitted with the new Krebs automatic carburetor for which great claims are made. One of the great disadvantages of many carburetors used hitherto was that there appeared to be no satisfactory method of securing a uniform composition of the explosive mixture of gas and air at all speeds. The regulation of the composition of this mixture either had to be effected entirely by hand, or else it was accomplished by more or less automatic devices that were far from satisfactory. The new carburetor, however, performs this function perfectly, since it is based on the following new principle: When the motor is running at its minimum speed, the air is drawn in through an aperture of fixed dimensions, while another series of apertures of variable size is closed. As the speed is increased, and, consequently, as the flow of gasoline tends to become greater, more air is required, and this additional supply is admitted through the variable apertures, which now open more and more in proportion to the quantity of fluid that is used. The special features of the new device are two:

First—The shape of the apertures for the additional air supply, which has been determined by calculations based on the results of a series of experiments

# THOR MOTORS
## AND FITTINGS

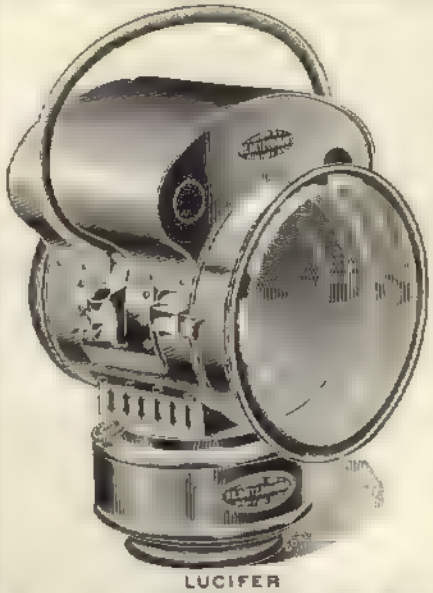



**Greatest Speed Most Durable No Vibration**
**Extreme Simplicity Finest Workmanship**

Must not be compared with any others. They are manufactured by themselves and have no competitors. Send for new Catalogue

General Selling Agents, Lehmberg Bros. & Unger, 16 Reade St., New York. 52 Lake St., Chicago.

**AURORA AUTOMATIC MACHINERY CO., Aurora, Ill.**




# DIETZ
## Lucifer Gas Lamp

**WATER FEED.** We offer this as superior to the plan of feeding by dripping. Acetylene comes off in copious bubbles where the water is first to the carbide and drops, thus only attacking it in one place. In the Lucifer Lamp the water is fed to the carbide around the whole circumference of the carbide holder (over 9 inches).

**DROP FEED LAMPS.**—In a lamp where the water is dropped into the carbide in one spot, after the lamp has been burned for some time, all the carbide around the feed becomes exhausted and the water has to soak some distance through the slacked carbide before it reaches the fresh. Hence the pressure and light of the lamp after burning for some hours, does not produce as good a flame as at first.

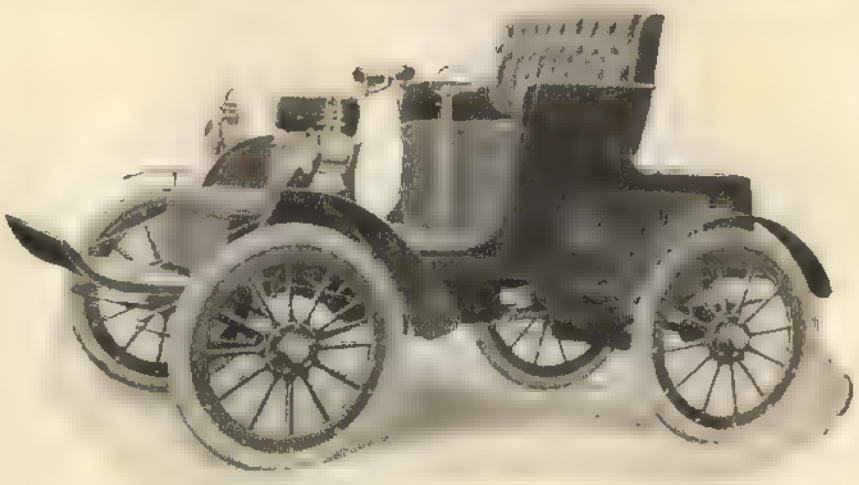
**CAPILLARY FILM FEED.** In our lamp the carbide is attacked from such a large surface, that at no time has the water far to go to reach fresh carbide, and the flame is as large and bright at the last as at first.

It has many other advantages. Send for circular.

**R. E. DIETZ COMPANY,** 35 LAIGHT ST. NEW YORK

**Established in 1840**

# "THE UNION"



Do you want a

## RUNABOUT

combining

**Strength and Simplicity**

with

**All Transmission Troubles Overcome?**

— WRITE US —

# THE UNION AUTOMOBILE CO.

UNION CITY, INDIANA

points of this car is that a very large majority of its parts are made in the Backus Company's own factory. The wheels are fitted with Diamond clincher tires. Body rests on the best steel springs made by the Spring Perch Company, of Bridgeport. The Backus car is particularly desirable for a doctor's use. The body is built on very graceful lines and presents a very pleasing appearance. There is a uniqueness about the style of the body which attracts one's attention on the first sight and gives it a very "professional" appearance. They are making it in three styles—a runabout, at $1100; runabout, with detachable rear seat, at $1200, and tonneau, at $1300.

The transmission gear is also of their own design and consists of rawhide pinions meshing with cast-iron gears. Pinions are of New Process rawhide with brass flanges on the outside, and the operation of the transmission is entirely noiseless on account of the use of these pinions. The body rests on a steel frame. The fuel tank is in front and the engine is placed in the middle of the frame. The valves are mechanically operated. A Baldwin chain transmits motion to the rear axle. Leather mud guards are used on the Backus car, and these add a very finished appearance to it. Prices quoted include two Dietz lamps, a horn and two wrenches.

## The Country Club Car

The Country Club Car Company, of 1067 Tremont Building, Boston, is another new concern in the field and exhibited one of their first cars at the New York Show. This car is of quite simple construction and has few wearing parts. It is strongly built to withstand hard usage and adapted for long distances and continuous service. The engine develops 10-H. P. at about 450 revolutions. It consists of two opposed cylinders, each 5x7. Perhaps the special feature of the car is the speed-changing device. This is operated by compressed air, the air being compressed by the piston in the engine. There is a pipe leading from the cylinder in the engine to a small tank in the rear of the car fitted with suitable valves. The action of the piston and the cylinder compresses the air into this tank or receiver, and when a sufficient compression has been reached the valve is automatically closed. A small crank on the left-hand side of the car, turning in an arc of about 90 degrees, operates the speed changing, the highest speed being given when the crank is turned away from the car. The speed is decreased as the crank is turned toward the car, and after the lowest speed is reached the next notch puts on the brake and the next operates the reverse. The valves on the engine are of the piston type and are mechanically operated. In the engine a scavenging charge of fresh air is drawn in after the power stroke takes place and the cylinder is thus thoroughly cleared of the exhaust before a new charge is thrown in. The engine is water-cooled and a centrifugal pump maintains the circulation. The oiling is automatic. The transmission is of the planetary type. Make and break spark is employed. The engine and all parts are easily accessible from the top and the body is dust proof, so that no dust or dirt can get at the parts. Their first car has been run 9000 miles, and is, therefore, fully tested. They say that it is quiet running and is giving perfect satisfaction.

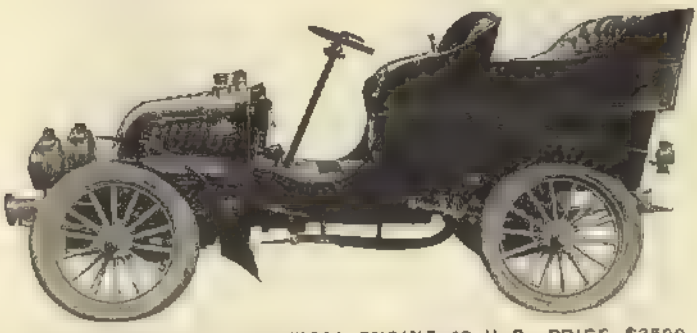
The Country Club Car

## The Mors

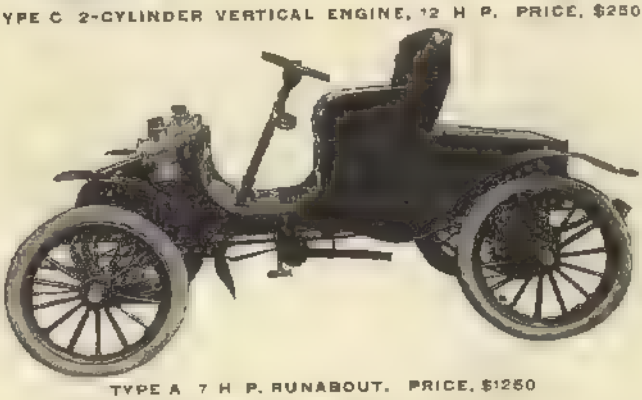
Henry Fournier held forth in a space in the Restaurant with a 1903 Mors on exhibition that was sold to William R. Hearst, the owner of the New York Journal and other papers. A feature of this exhibit was a demonstration of the ignition system of a four-cylinder Mors engine. The four cylinders were represented as cut in half and the mechanical operation of the touch spark clearly shown

# U. S. LONG DISTANCE AUTOMOBILE CO.

# Touring Cars
# 1903 Model



TYPE C 2-CYLINDER VERTICAL ENGINE, 12 H. P. PRICE, $2500



TYPE A 7 H. P. RUNABOUT. PRICE, $1250

George T. Gould, Jr., 43 Columbus Avenue, Boston, Mass.
Bryan Haywood, Denver, Col.
C. V. Livingston, Rondout, N. Y.
J. W. Mears, 742 Bedford Avenue, Brooklyn, N. Y.
F. W. Stockbridge, 450 Broadway, Paterson, N. J.
J. M. Schubert, 32 R. R. Place, East Orange, N. J.
Birney A. Robinson, Worcester, Mass.
C. O. Reichert, New Haven, Conn.
Ralph Temple, 293 Wabash Ave., Chicago, Ill.
Jos. J. Mandery, Rochester, N. Y.

**ADDITIONAL AGENTS WANTED**

## U. S. Long Distance Automobile Co.
### 108-112 W. 41st Street, New York

# THE 1903 CATALOG

OF

# Wolff-American

# and Regal

# BICYCLES

is now ready It should interest all who are interested in newness and goodness in bicycles regardless of names. We'll be pleased to send **you** a copy, and after having seen it we believe you will be pleased that you sent for it.

---

AGENCIES ARE BEING PLACED NOW.

---

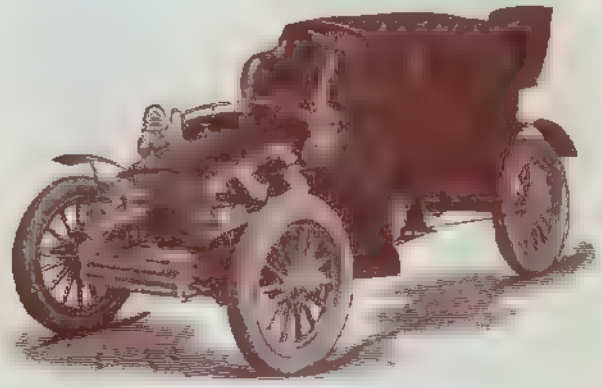
## STEARNS BICYCLE AGENCY

## SYRACUSE, N. Y.

# THE "YALE" CAR

**A New Proposition by an Old Concern**

*We Will Sell Entirely Through Agents*



**Good to look at** **Good to run**

Thoroughly Tested and as Good as It Looks

---

# The Kirk Mfg. Co.

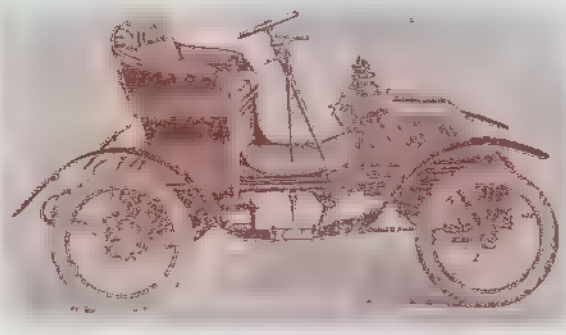
TOLEDO, O.

# DE DION-BOUTON CO.

PARIS, FRANCE

## Standard Automobiles and Motors of the World

1903 Models



De Dion
Little Popular

6 H. P. Motor
in front

PRICE
$1200

The latest Paris' Sensation. 2000 orders taken during the Paris Show for the above Little Popular.

## The Municipal Prize

**The highest prize given at the Paris Automobile Show was awarded to the DE DION-BOLTON COMPANY.**

Single and double cylinder **Tonneaus, Phaetons, Limousines, Coupes, Surreys, Voiturettes and Delivery Wagons** De Dion Automobiles are not a freak in the experimental stage. There are fully 35,000 of them in use all over the world. A De Dion 8 H. P. Tonneau holds the Boston-New York record, and also the Boston-New York and Return record; the round trip covered in 34 hours 54 minutes time from start to finish, including all stops. No part of the machine was repaired on the whole trip. A doctor's machine, a business man's machine, a pleasure machine—the machine for everybody. Suitable for city use or for touring. Reliable, easy to run, and of best workmanship. De Dion-Bouton Single and Double Cylinder Motors from 1½ to 15 H. P. Fully half the automobiles exhibited at the Paris Show had De Dion Motors. Leading manufacturers all over the world use them because they are the best. Beware of worthless imitations! A large supply of all size motors and accessories in stock. Address all communications to

## K. A. SKINNER

SOLE U. S. AGENT

DE DION AUTO STATION

179 Clarendon St., Boston, Mass.

# Spring Punches.

Code Fahne — Per Dozen
No. 200 One Tube, to Drive, Assorted Tubes, . . . . . $5.00
Weight 8 lbs. Per Dozen.

Code Fahrgast — Per Dozen
No. 10 Four Tubes, to Drive, One Each Nos. 4, 6, 8 and 10 Tubes, . . . $16.00
Weight 11 lbs. Per Dozen.

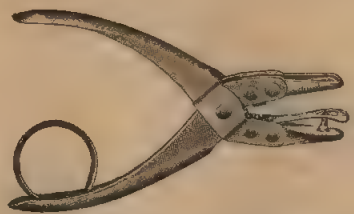
Code Fairglein
No. 11—Six Tubes to Drive, One Each Nos. 3, 4, 6, 7, 8 and 10 Tubes, . 20.00
Weight 12 lbs. Per Dozen.

Half Dozen in a Box.

Full Size of Holes

Code Fahrmaus — Per Dozen
Extra Punch Tubes, to Drive, Nos. 3 to 10, . . . . . $ 2.00

# Ticket Punches.



Code Fagenie — Per Dozen
No. 26—Canner's, Pressed Steel, Polished, Assorted Dies, . . . . . $ 6.00
Weight 3½ lbs. Per Dozen.

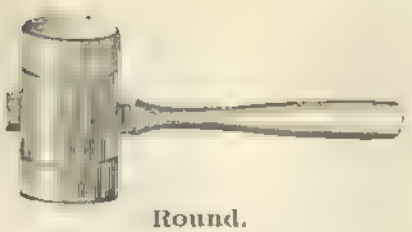
Code Fagotage — Per Dozen
No. 38 Cast Steel, Polished, Assorted Dies, . . . . . $12.00
Weight 4 lbs. Per Dozen.

Code Fagottist — Per Dozen
No. 430—Cast Steel, Polished, Assorted Dies, . . . . . $ 8.00
Weight 3½ lbs. Per Dozen.

Code Fagotto — Per Dozen
No. 42—Cast Steel, Nickel Plated, Assorted Dies, . . . . . $20.00
Weight 4 lbs. Per Dozen.

Half Dozen in a Box.

# Carpenters' Mallets.



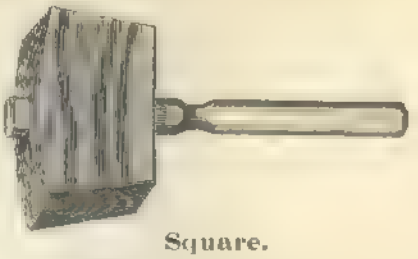
**Round.**

Hickory, Mortised Handle.

| | Per Dozen. |
|---|---|
| No. 2—5½ in. Long, 3¼ in. Diameter, | $2.00 |
| No. 3 6 in Long, 4 in. Diameter, | 2.50 |

Lignumvitæ, Mortised Handle

| | |
|---|---|
| No. 5—5 in Long, 3 in Diameter, | $3.00 |
| No. 6 5½ in. Long, 3½ in Diameter, | 4.00 |
| No. 7 6 in. Long, 4 in. Diameter, | 5.00 |



**Square.**

Hickory, Mortised Handle.

| | Per Dozen |
|---|---|
| No. 8—6 in Long, 2⅛x2⅛ in. Diameter, | $2 00 |
| No. 9—6½ in. Long, 2¾x3⅜ in Diameter, | 2.50 |

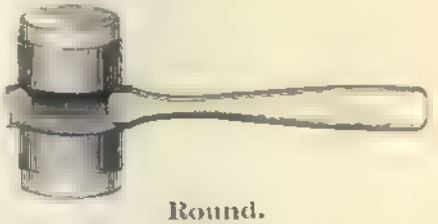
Lignumvitæ, Mortised Handle

| | |
|---|---|
| No. 12 6½ in Long, 2¾x3¾ in. Diameter, | 4 75 |
| No. 13—7 in Long, 3 x4 in. Diameter, | 5 75 |

**Round.**

Iron, Hickory Ends, Mortised Handle.

| | Per Dozen. |
|---|---|
| No. 15—2 in Diameter, | $4.00 |



**Round.**

Heavy Malleable Iron, Hickory Ends, Mortised Handle

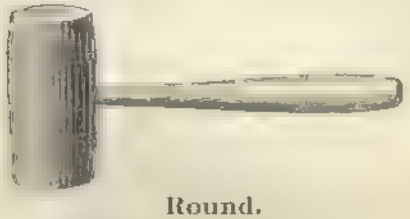
| | Per Dozen |
|---|---|
| No. 16—3 in. Diameter, | $7.50 |

**Round, Patent Fibre Heads, Wood Body.**

| | Per Dozen |
|---|---|
| No. 2 —2 in Diameter, | $6.50 |
| No. 2½ —2½ in. Diameter, | 7 50 |
| No. 3 —3 in. Diameter, | 9 00 |

The Heads of these Mallets are pressed under Five Tons Pressure

# Tinners' Mallets.



**Round.**

Hickory, Mortised Handle.

| | Per Dozen |
|---|---|
| No. 5 —2¼ in Diameter, | $1.00 |
| No. 6 2½ in Diameter, | 1.15 |
| No. 7 2¾ in Diameter, | 1.90 |

Hickory, Extra Quality, Second Growth, Mortised Handle.

| | Per Dozen |
|---|---|
| No. 25—2¼ in. Diameter, | $1.60 |
| No. 26—2½ in Diameter, | 1.80 |
| No. 27 —2¾ in. Diameter, | 2.00 |

# Stone Cutters' Mallets.

Second Growth Hickory

| | Per Dozen |
|---|---|
| No. 30—Weight 5 lbs Each, | $12 00 |
| No. 30 Weight 6 lbs. Each, | 16 00 |
| No. 30—Weight 7 lbs. Each, | 20.00 |
| No. 30—Weight 8 lbs Each, | 20 00 |

# Block Planes.

## Stanley's.

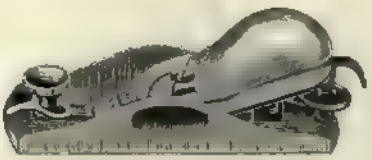
| | Each |
|---|---|
| **No. 101**—3½ in. Long, 1 in. Cutter, | $0.15 |
| **No. 100**—3½ in. Long, 1 in Cutter, | $0.20 |

| | Each. |
|---|---|
| **No. 102** 5½ in. Long, 1½ in. Cutter, | $0.30 |
| **No. 103**—Adjustable, 5½ in. Long, 1½ in. Cutter, | .45 |
| **No. 110** 7½ in Long, 1¾ in Cutter, | $0.45 |

| | Each. |
|---|---|
| **No. 220**—Adjustable, 7½ in Long, 1¾ in Cutter, | $0 60 |
| **No. 130**—Double Ender, 8 in Long, 1¾ in Cutter, | $0.60 |

## Bailey's.

| | Each. |
|---|---|
| **No. 9¼**—6 in Long, 1¾ in Cutter, | $1 60 |
| **No. 15**—7 in Long, 1¾ in Cutter, | 1 10 |
| **No. 16**—Nickel Trimmings, 6 in Long, 1¾ in Cutter, | $1 15 |
| **No. 17**—Nickel Trimmings, 7 in Long, 1¾ in Cutter, | 1 25 |



| | Each |
|---|---|
| **No. 60**—Low Angle, 6 in Long, 1⅝ in Cutter, | $1.15 |
| **No. 65**—Low Angle, 7 in. Long, 1⅝ in Cutter, | 1 25 |
| **No. 18** Nicke. Trimmings, 6 in Long, 1⅝ in Cutter, | $1.20 |
| **No. 19**—Nickel Trimmings, 7 in Long, 1⅝ in Cutter, | 1.30 |

The Knuckle Joint in the Cap makes it a Lever, to Clamp the Cutter in its Seat.

| | Each |
|---|---|
| **No. 9¾** Rosewood Handle, 6 in Long, 1¾ in Cutter, | $1.20 |
| **No. 15½**—Rosewood Handle, 7 in Long, 1¾ in. Cutter, | 1.30 |
| **No. 140** Rabbet and Block, 7 in Long, 1¾ in Cutter, | $1.25 |

A Detachable Side will easily change this tool from a Block Plane to a Rabbet Plane, or vice versa. The Cutter is set on a Skew

One in a Box.

## BARROWS.

**The "Pet."**

Has 6 in. solid wheel. Handles 25 in. long. Stained Red ..... Per dozen 4.40

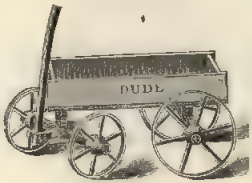
## CARTS.

| | | Per dozen |
|---|---|---|
| Toy Carts, No. 1. | Box 10 in. long, 5½ in. wide; Painted Red | 4.50 |
| " " " 2. | " 11 " 6½ " " " " | 4.90 |
| "Daisy," | " 18 " 10½ " " " " | 12.60 |

## WAGGONS.

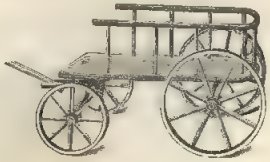
**"Boys' Own."**

Wood Wheels and Wood Axles; Painted, Striped, Varnished ..... Per dozen 18 20



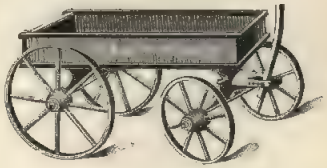

**"Dude."**

Has 6 and 8 in. Wheels, Tin Tires; Box 16 in. long, 6¾ in. wide; Box Painted, Striped, Scrolled and Lettered ..... Per dozen 10.70



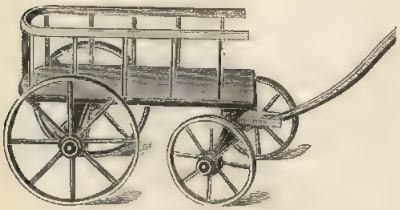
**"Empress."**

Wood Wheels and Wood Axles, Painted, Striped, Varnished ..... Per dozen 18 40



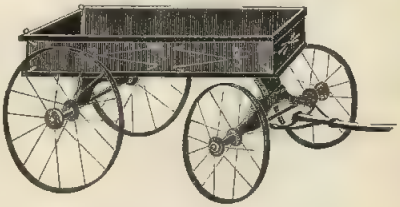
**"Dandy."**

Wood Wheels and Iron Axles; Painted Striped, Varnished ..... Per dozen 21 35



**"Sultan."**

Painted, Striped, Varnished; Wood Wheels and Iron Axles.. ..... Per dozen 24.65



| No. | | Per dozen |
|---|---|---|
| 1, | Iron Wheels and Heavy Iron Axles with Iron Platform; Wheels 8 in. and 12 in.; Box same as "Boys' Own"..... | 37.80 |
| 2, | Iron Wheels and Heavy Iron Axles with Iron Platform; Wheels 10 in. and 14 in.; Box same as "Dandy"..... | 41 90 |
| 3, | Iron Wheels and Heavy Iron Axles with Iron Platform; Wheels 8 in. and 12 in; Box same as "Empress"..... | 38.10 |
| 4, | Iron Wheels and Heavy Iron Axles with Iron Platform; Wheels 10 in. and 14 in; Box same as "Sultan"..... | 45 70 |

**"ELLIOT'S" hand-forged** Cheese Knives and Butter Spades are the very best made.

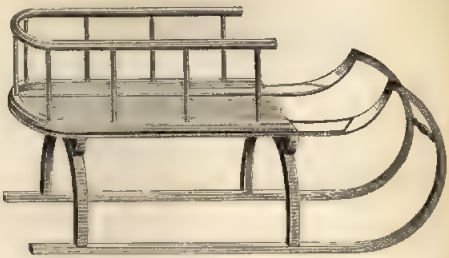
H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

## SLEIGHS.

**Bent Rail.**

Frames varnished on the wood, tops painted and striped. Length 28 inches, width 11 inches.

Per dozen. .....12.90

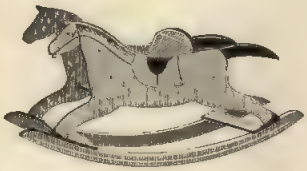


**"Comfort."**

Nicely striped and ornamented throughout. 42 inches in length, width 13 inches.

Per dozen.. .....15.30

## "SHOO FLY" ROCKERS.



**"Shoo Fly" Rocker, No. 1.**

Made from an improved design Horses painted dapple grey. Hardwood rockers, finished on natural wood and striped. Seat painted red.

Per dozen ..... .15.40

**"Shoo Fly" Rocker, No. 2.**

A much larger rocker than No. 1, and finished in superior style. Strong and well made.

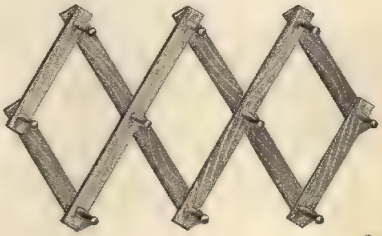
Per dozen ..... 20.70

### TOWEL RACKS.

Per dozen

5 Arms..... 3.00

### HAT RACKS.



Per dozen

10 Pegs ..... 4.80

13 " ..... 6.00

**"ELLIOT'S"** hand-forged Table Knives and Forks are the best.

# Single Bitted Axes.

Yankee Pattern.

## Colby.

| | Per lb. net |
|---|---|
| **Colby—Best English Cast Steel, Silver Bronzed, Polished Head,** . | $12 50 |

Yankee Pattern, Weights Assorted, 3½ to 3⅞, 3¼ to 4½, 3½ to 4, 3⅝ to 4¼, 3⅞ to 4⅜, 4 to 5 Lbs.
Michigan Pattern, Weights Assorted, 3¼ to 3¾, 3½ to 4½, 3½ to 4, 3⅝ to 4¼, 3¾ to 4⅜, 4 to 5 Lbs.

One Dozen in a Box.

# Single Bitted Axes.

**Michigan Pattern.**

## Vulcan.

**Vulcan**—Extra Quality Steel, Hand Made, Black Finish, — Per Dozen $11 00

Wisconsin Pattern, Weights Assorted, 3½ to 3¾ 3½ to 4½ 3¾ to 4, 3⅞ to 4½, 3⅞ to 4½, 4 to 5 Lbs
Michigan Pattern, Weights Assorted, 3½ to 3¾ 3½ to 4½ 3¾ to 4 3½ to 4½, 3¾ to 4⅝, 4 to 5 Lbs

One Dozen in a Box

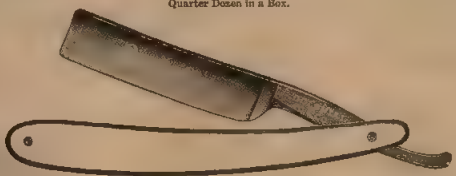
# Razors.

## Colonial.

Per Dozen

No. 2051—Colonial, ⅝ In. Square Point Blade, Three-Quarter Concave, Pearl Tang, Black Etching, Black Rubber Handle, . . . . . $48.00

Quarter Dozen in a Box.



Per Dozen

No. 2231 ⅝ In. Square Point Blade, Full Concave, White Celluloid Handle, . . . . . $32.00

Half Dozen in a Box.

Per Dozen

No. 1661 ¾ In. Square Point Blade, Three-Quarter Concave, Fancy Gimped Tang, Black Rubber Handle, . . . . . $32.00

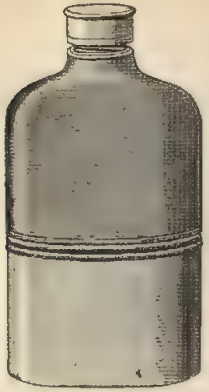
Half Dozen in a Box.

Per Dozen

No. 100S—½ In. Square Point Blade, Full Concave, Black Rubber Handle, . . . . $36.00
No. 101S ⅝ In. Square Point Blade, Full Concave, Black Rubber Handle, . . . . 36.00
No. 100R—½ In. Round Point Blade, Full Concave, Black Rubber Handle, . . . . . 36.00
No. 101R—⅝ In. Round Point Blade, Full Concave, Black Rubber Handle, . . . . . 36.00

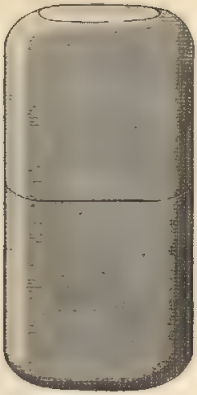
Half Dozen in a Box.

## Dram Flasks.



No. 353, Leather Covered Top.

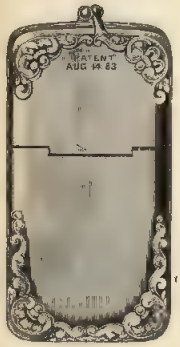
| No. 353 | ¼ | ½ | 1 | 1½ pints |
|---|---|---|---|---|
| Per dozen | 9.90 | 12.30 | 14.80 | 22.10 |



No. 7231, All Metal.

| No. 7231 | ¼ | ½ | 1 | 1½ pints. |
|---|---|---|---|---|
| Per dozen | 25.40 | 29.90 | 37.40 | 49.50 |

## Pocket Match Safes.




"Mascot." Per dozen
Nickel Plated, Double Acting ..... 3.60

"Excelsior." Per dozen
Nickel Plated..... 1.60

"Charm." Per dozen
Nickel Plated ..... 2.70

"Combination." Per dozen
Nickel Plated, with Cigar Cutter. ..... 8.60

One dozen in a box. Prices for full boxes.

## "Echo" Call.

No. 620, Handsomely Nickel Plated .. Per dozen 3.50

## "Universal" Call

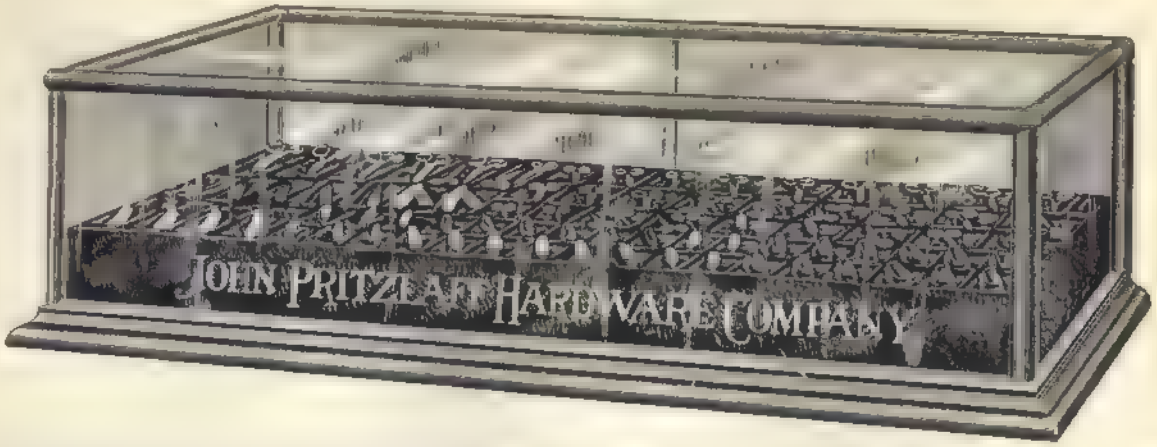
No. 2, Nickeled, medium size Per dozen 3.70

## Duck Call.

No. 760, Cocobolo Wood and Nickel Tip.. Per dozen 4.20

One dozen in a box. Prices for full boxes.

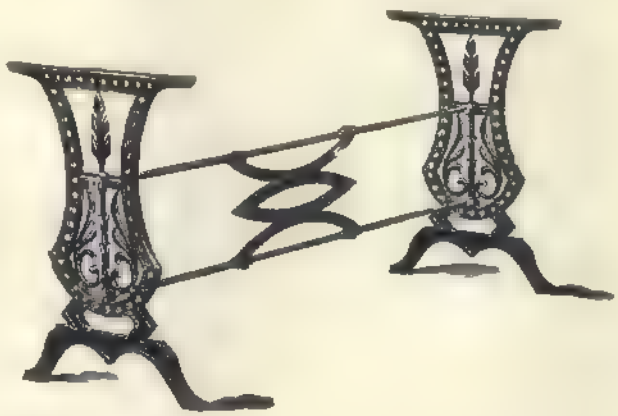
# Cutlery Show Cases.




No. 55 Antique Oak Frame, Length 4 ft. 6 in., Height 15 in., Depth 27½ in., Double Thick French Glass, Each $30 00

This Case has a Plush Lined Tray, divided into spaces to show 55 Patterns of Pocket Knives, 4 Patterns of Shears, 9 Patterns of Scissors and 8 Patterns of Razors. Also two Drawers under Tray, for Stock, with divisions to correspond with Tray

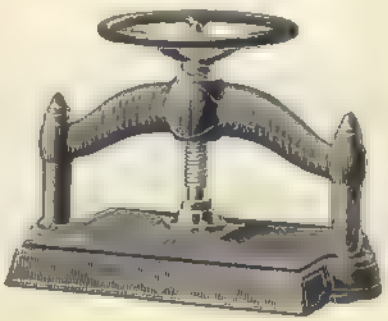
## Show Case Stands.



No. 2—Cast Iron, Japanned, with 2 Legs, . . . . Each $4 25
No. 3—Cast Iron, Japanned, with 3 Legs, . . . . 6 65

When Ordering specify Length of Case for which Stand is wanted.

## Letter Presses.



No. D4—10x12½ in., Cast Iron, Japanned and Striped, Each $6 75
No. D5—10x15 in., Cast Iron, Japanned and Striped, 8.25

## Money Drawers.

No. 2 Tucker's, Oak Front, Varnished, Per Dozen $24 00

# Cash Registers.

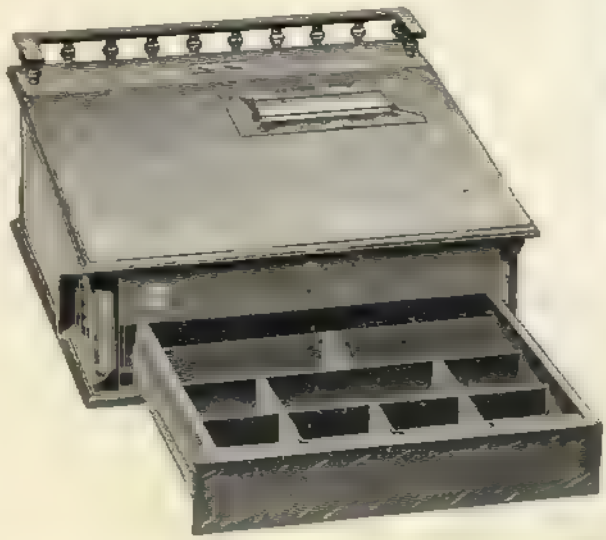
Each.

**No. 5** –Sun, Antique Oak Case, Height 21 in., Width 19¼ in., Depth 18 in., . . $40.00

Each.

**No. 10** Sun, Cast Iron, Nickel Plated Case, Height 21 in., Width 19¼ in., Depth 18 in., . $45.00

Mechanism is of Metal throughout, has 20 Keys registering in denominations from 1 cent to 20 dollars in any amount as shown on Key board Price Groove shows amount sold Totals of each Groove gives amount of sales Pushing Thumb Lever cancels former registration, uncovers Keys, opens Cash Drawer and sounds Alarm Sale must be registered before Drawer can be closed Hinged Desk Cover 16x18 in., Cloth covered. Independent Keys for locking Drawer and Lid.



Each.

**No. 1** Standard, Antique Oak Case, Oak Rail, Top 20x20 in., . . . . $25 00

Each

**No. 2**—Standard Antique Oak Case, Nickel Plated Mountings, Top 20x20 in., with Rubber Cash Mat, . . . . . $30.00

Per Dozen Rolls

**Register Paper for Nos. 1 and 2 Standard Registers,** . . . . . $5.00

The Drawer of the Standard Cash Register can not be opened without knowing the combination The combination can be set 16 different ways.

# Well Buckets.

Code Gotenda — Per Dozen

**No. 121**—Galvanized Iron, Capacity 12 Quarts, . . . . . $8.00
Weight 50 lbs. Per Dozen.

Code Gotendon

**No. 141**—Galvanized Iron, Capacity 14 Quarts, . . . . . 9.50
Weight 56 lbs. Per Dozen.

Code Goteras — Per Dozen

**No. 1**—Capacity 12 Quarts, Oak, Top Ear, Twisted Bail, Black Hoops, . . $9.00
Weight 84 lbs. Per Dozen.

Code Goteron — Per Dozen

**No. 3** Capacity 12 Quarts, Oak, Long Strap Ear, Twist Bail, Galvanized Hoops, . $10.00
Weight 90 lbs. Per Dozen.

## Water Bags.

Desert.

Code Gothcal — Each

**No. 1** —Capacity 1 Gallon, . . . . $0.90
Weight 1 lb. Each.

Code Gothicise

**No. 2½**—Capacity 2½ Gallons, . . . 1.25
Weight 1¼ lbs. Each.

Code Gothicos

**No. 5** —Capacity 5 Gallons, . . . . 2.00
Weight 2 lbs. Each.

The Desert Water Bag is the very best article of its kind manufactured and is perfect in every way. The spout is so placed that it is to the extreme end, allowing no sediment of any kind to remain in the bag when cleaning out, as it does in all others. It is especially adapted for Harvest Fields for Teamsters, Prospectors, Camping Parties, etc., as it keeps the water Cool and Fresh at all times. Should be kept filled for 24 hours before using to insure its not leaking so as to allow the fibres of the canvas to close up.

# Dog Whistles.

| | Per Dozen |
|---|---|
| No. 1 -Celluloid, Medium, | $2.50 |
| No. 2—Celluloid, Large, | 3.00 |

| | Per Dozen |
|---|---|
| No. 10—Horn, Medium, | $3.00 |
| No. 12—Horn, Large, | 4.20 |

| | Per Dozen |
|---|---|
| No. 30—Universal, Nickel Plated, Medium, | $2.45 |
| No. 40—Universal, Nickel Plated, Large, | 2.60 |

| | Per Dozen |
|---|---|
| No. 50 -Echo, Nickel Plated, | $2.20 |

# Training Whips.

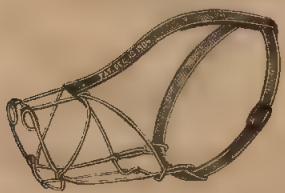
| | Per Dozen |
|---|---|
| No. 106—3 Ft. Long, Braided Horse Hide, with Snap on End, | $9.00 |

| | Per Dozen |
|---|---|
| No. 109 3 Ft. Long, Braided Horse Hide, with Whistle and Loop Handle, | $15.00 |

# Dog Mushers Whips.

| | Per Dozen |
|---|---|
| No. 5089—5 Ft. Long, Braided Oiled Leather, Swivel Handle, | $24.00 |

# Dog Muzzles.

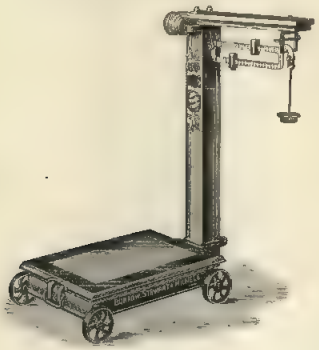


| | Per Dozen |
|---|---|
| Wire Safety Dog Muzzles, Assorted Sizes, | $3.00 |

| | Per Dozen |
|---|---|
| No. 862—Adjustable, ¾ In. Leather Straps, Assorted Sizes, | $9.00 |

# "STANDARD" PORTABLE DAIRY SCALES.

**Double Brass Beam Sliding Poises.**



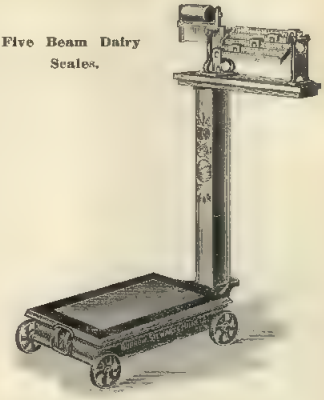
WITHOUT WHEELS.

| No. | Capacity. | Size of Platform. | Price | Inspection |
|---|---|---|---|---|
| **360,** | 600 lbs. | 25 x 16 in. | 33 00 | 1.00 |
| **361,** | 1000 lbs. | 26 x 18 in. | 38 50 | 1.00 |

WITH WHEELS.

| | | | | |
|---|---|---|---|---|
| **364,** | 600 lbs. | 25 x 16 in. | 36.30 | 1 00 |
| **365,** | 1000 lbs | 26 x 18 in. | 41 80 | 1 00 |

**Five Beam Dairy Scales.**



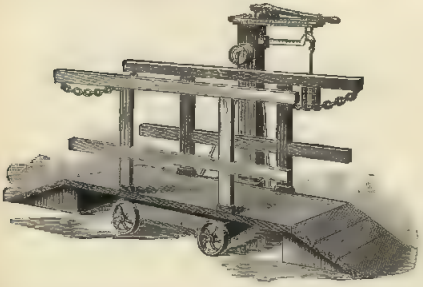
**No Weights, all Weighing Capacity on Beams.**

| No. | Capacity. | Price | Inspection |
|---|---|---|---|
| **368,** | 600 lbs. | 52.80 | 1.00 |

This Scale has a Compound Beam for weighing and registering separately the different quantities of milk as they are poured into the can, thus saving much time and trouble. No weights are used as the weighing is all done with the poises.

# STOCK SCALES.

**PORTABLE STOCK SCALES.**



| No. | Capacity. | Extended Platform. | Lower Platforms | Price | Inspection |
|---|---|---|---|---|---|
| **470,** | 3000 lbs. | 72 x 32 in. | 37 x 32 in. | 84.70 | 1.50 |

With Drop Poise and Notched Beam or Sliding Poise Beam.
If furnished with Runs add to List 1.50.

**DORMANT STOCK SCALES.**

| No. | Capacity. | Size of Platform. | Price | Inspection |
|---|---|---|---|---|
| **475,** | 4000 lbs. | 6 ft. x 4 ft. | 93.50 | 1.50 |

With Sliding Poise Beam with Patent Cut Off Lever which reduces the strain on bearing one half.
This Scale can be sunk in floor of barn to level of floor, or set on the floor as shown in cut.

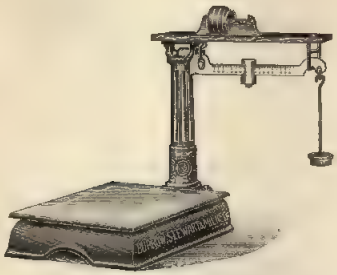
Government inspection on Scales is not subject to any discount whatever.

**"ELLIOT'S" hand-forged** Carving Knives and Forks are the very best made.

H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

# "STANDARD" SCALES.

## PORTABLE PLATFORM SCALES.

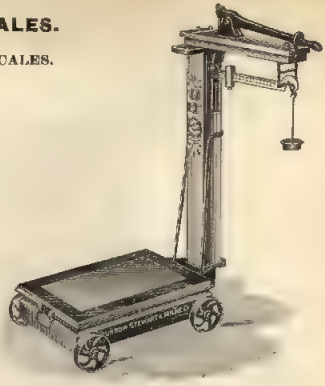


### Short Pillar Platform Scales.

For Counter Use.

| No. | Capacity. | Size of Platform. | Price. | Inspection. |
|---|---|---|---|---|
| 246, | 300 lbs. | 19 x 14 in. | 22.60 | .75 |

Furnished with Notched Beam and Drop Poise, or with Sliding Poise Beam at same price if desired.



WITH WHEELS AND DROP LEVER.

| No. | Capacity. | Size of Platform. | Price. | Inspection. |
|---|---|---|---|---|
| 350, | 1000 lbs. | 26 x 17 in. | 44.00 | 1.00 |
| 350½, | 1200 " | 26 x 17 " | 46.00 | 1.00 |
| 351, | 1200 " | 28 x 19 " | 52.80 | 1.00 |
| 351½, | 1500 " | 28 x 21 " | 58.30 | 1.00 |
| 352, | 2000 " | 28 x 21 " | 60.50 | 1.00 |
| 353, | 2000 " | 31 x 24 " | 73.70 | 1.00 |
| 354, | 2500 " | 31 x 24 " | 82.50 | 1.50 |

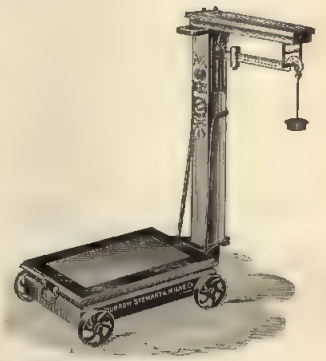
Either with Brass Beam and Sliding Poise or with Notched Beam and Drop Poise, Pillar Braces in all sizes.

## PORTABLE PLATFORM SCALES.

### Heavy Bevel Edge Platform.

WITHOUT WHEELS.

| No. | Capacity. | Size of Platform. | Price. | Inspection. |
|---|---|---|---|---|
| 330, | 400 lbs. | 21 x 15 in. | 25.30 | .75 |
| 331, | 600 " | 25 x 16 " | 29.70 | 1.00 |
| 332, | 1000 " | 26 x 17 " | 35.20 | 1.00 |
| 332½, | 1200 " | 26 x 17 " | 37.40 | 1.00 |
| 333, | 1200 " | 28 x 19 " | 39.60 | 1.00 |
| 334, | 1500 " | 28 x 19 " | 45.10 | 1.00 |
| 334½, | 2000 " | 28 x 21 " | 49.50 | 1.00 |
| 335, | 2000 " | 31 x 24 " | 57.00 | 1.00 |
| 336, | 2500 " | 31 x 24 " | 66.00 | 1.50 |



WITH WHEELS.

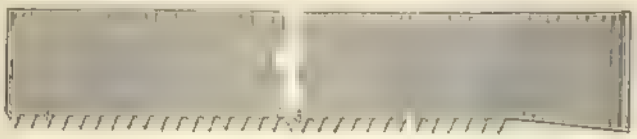
| No. | Capacity. | Size of Platform. | Price. | Inspection. |
|---|---|---|---|---|
| 340, | 400 lbs. | 21 x 18 in. | 28.60 | .75 |
| 341, | 600 " | 25 x 16 " | 33.00 | 1.00 |
| 342, | 1000 " | 26 x 17 " | 38.50 | 1.00 |
| 342½, | 1200 " | 26 x 17 " | 40.70 | 1.00 |
| 343, | 1200 " | 28 x 19 " | 44.00 | 1.00 |
| 344, | 1500 " | 28 x 21 " | 49.50 | 1.00 |
| 344½, | 2000 " | 28 x 21 " | 55.00 | 1.00 |
| 345, | 2000 " | 31 x 24 " | 62.70 | 1.00 |
| 346, | 2500 " | 31 x 24 " | 71.50 | 1.50 |

Either with Brass Beam and Sliding Poise or Notched Beam and Drop Poise.
Pillar Braces on 1500 pounds and over.
Government inspection on scales is not subject to any discount whatever.

# Saws.

**Drag, Tuttle Tooth.**

| | Per Foot |
|---|---|
| 5x7 in., 10 Gauge, 5, 5½ and 6 ft., | $1 15 |
| 6x8 in., 10 Gauge, 5, 5½ and 6 ft., | 1.25 |
| 7x7 in., 10 Gauge, 5½ ft., | 1 45 |

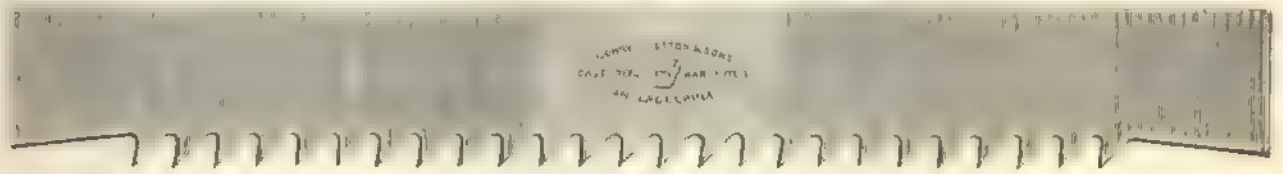


**Drag, Cross Cut Tooth.**

**Drag, Mill Tooth.**

Warranted Extra Cast Steel, Tempered.

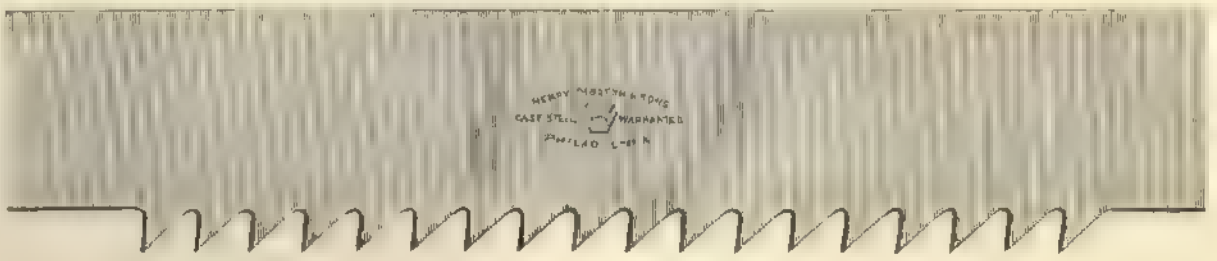
| | Per Foot. | | Per Foot |
|---|---|---|---|
| 5 ft., 10 Gauge, Tapered, 8 in Butt, 6 in Point. | $1.25 | 5 ft., 10 Gauge, Tapered, 8 in Butt, 6 in Point. | $1.25 |
| 5 ft., 10 Gauge, Tapered, 7 in. Butt, 5 in. Point. | 1.15 | 5 ft., 10 Gauge, Tapered, 7 in. Butt, 5 in. Point. | 1 15 |
| 5½ ft., 10 Gauge Tapered 8 in Butt, 6 in Point. | 1 25 | 5½ ft 10 Gauge Tapered, 8 in Butt, 6 in Point. | 1 25 |
| 5½ ft., 10 Gauge, Tapered, 7 in. Butt, 5 in Point. | 1.15 | 5½ ft., 10 Gauge, Tapered, 7 in Butt, 5 in. Point. | 1.15 |



**Mill.**

No. 1—Cast Steel Extra Tempered, Patent Ground

| Gauge Nos., | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|
| Width, Inches, | 8 | 8 | 8 | 8 | 8 |
| Per Foot, | $2 20 | 2.10 | 1.90 | 1.75 | 1 65 |



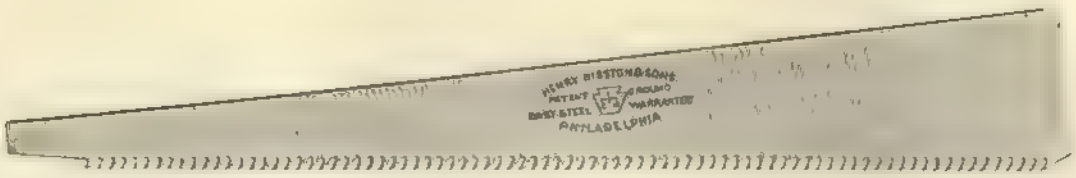
**Mulay.**

No. 1—Cast Steel, Extra Tempered, Patent Ground.

| Gauge Nos., | 4 | 4 | 4 | 5 | 5 | 5 | 6 | 6 | 6 | 7 | 7 | 7 | 8 | 8 | 8 | 9 | 9 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Width, Inches. | 10 | 11 | 12 | 10 | 11 | 12 | 10 | 11 | 12 | 10 | 11 | 12 | 10 | 11 | 12 | 10 | 11 | 12 |
| Per Foot, | $3.15 | 3 50 | 3 85 | 3.00 | 3 30 | 3 50 | 2 75 | 3 00 | 3 30 | 2.40 | 2 75 | 3 00 | 2.20 | 2 40 | 2 75 | 1 90 | 2 20 | 2 40 |

# Saws.

Henry Disston & Sons'.




**Pit.**

Warranted Extra Cast Steel, Tempered

| Feet, | 5 | 5½ | 6 | 6½ | 7 | 7½ | 8 |
|---|---|---|---|---|---|---|---|
| Each. | $5.00 | 5.50 | 6.00 | 6 50 | 7 00 | 7 50 | 8 00 |

List does not include Handles.

**Whip.**

Warranted Extra Cast Steel, Tempered.

| Feet | 5 | 5½ | 6 | 6½ | 7 | 7½ |
|---|---|---|---|---|---|---|
| Each | $3.00 | 3.30 | 3.60 | 3 90 | 4 20 | 4 50 |

List does not include Handles

**Pond Ice.**

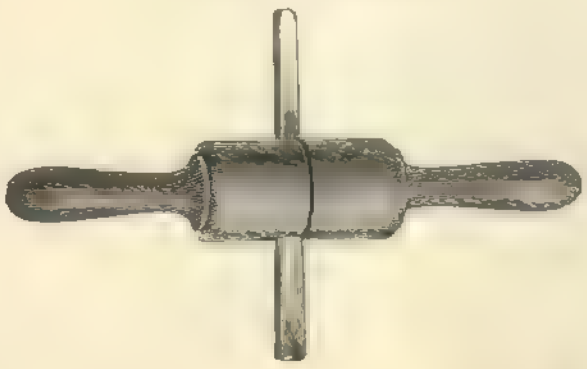
Tapered, 7 in Butt, 5 in. Point, 11 Gauge
Set and Sharpened, without Handles

| Feet, | 4 | 4½ | 5 |
|---|---|---|---|
| Each. | $3.40 | 3.85 | 4.25 |

**Hand Ice.**

| | Per Dozen |
|---|---|
| No. 15—28 in., with Iron Handle. | $24 00 |
| No. 16—28 in., with Wood Handle. | 22 00 |

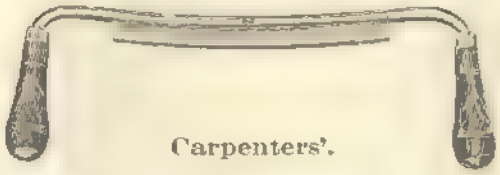
## Box Handles.



## Tiller Handles.

| | Each. | | Each |
|---|---|---|---|
| Box Handles, | $1.00 | Tiller Handles, | $1.25 |

# Drawing Knives.



## Carpenters'.

### No. 1 Extra.

Cast Steel, Razor Blade, Ebonized Handles, Nickel Plated Cap and Ferrule.

| Inches. | 7 | 8 | 9 | 10 | 12 | 14 |
|---|---|---|---|---|---|---|
| Per Dozen | $18 00 | 19 00 | 20 00 | 21.00 | 23.00 | 25.00 |

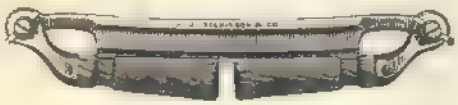
Half Dozen in a Box.

### Barton's.

Cast Steel, Razor Blade, 1½ in. Wide, Applewood Handles Capped and Ferruled.

| Inches, | 8 | 9 | 10 |
|---|---|---|---|
| Per Dozen, | $12 00 | 13.00 | 14 00 |

Quarter Dozen in a Package.



### Wilkinson's.

Cast Steel, Adjustable Folding Handles.

| Inches, | 7 | 8 | 9 | 10 |
|---|---|---|---|---|
| Per Dozen, | $22 50 | 24.00 | 27.00 | 30.00 |

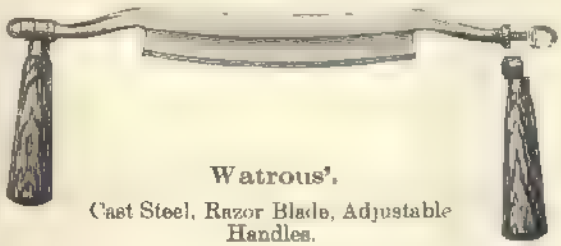
Half Dozen in a Box.

### No. 1901.

Cast Steel, Adjustable Folding Handles

| Inches, | 8 | 9 | 10 |
|---|---|---|---|
| Per Dozen, | $22.00 | 24.00 | 26.00 |

Quarter Dozen in a Box.



### Watrous'.

Cast Steel, Razor Blade, Adjustable Handles.

| Inches, | 8 | 9 | 10 |
|---|---|---|---|
| Per Dozen, | $12.00 | 13.50 | 15.00 |

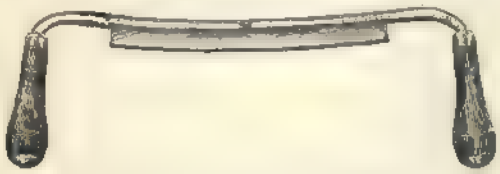
Half Dozen in a Box.

### Barton's. Carriage Makers'.

Cast Steel, Razor Blade ⅞ to 1 in. Wide, Applewood Handles, Capped and Ferruled.

| Inches, | 8 | 9 | 10 |
|---|---|---|---|
| Per Dozen, | $12.00 | 13.00 | 14.00 |

Quarter Dozen in a Package



### Barton's, Coach Makers'.

Cast Steel, Razor Blade, 1¼ to 1½ in Wide, Applewood Handles, Capped and Ferruled

| Inches, | 8 | 9 | 10 |
|---|---|---|---|
| Per Dozen, | $13 00 | 14.00 | 15 00 |

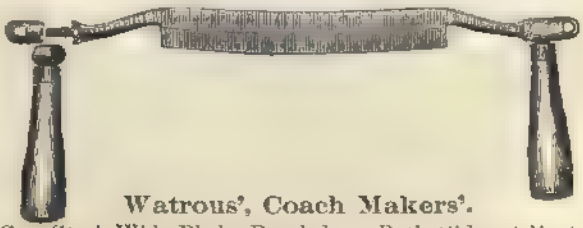
Quarter Dozen in a Package.

### Barton's, Wagon Makers'.

Cast Steel, Heavy Blade, 1¼ to 1¾ in Wide Black Walnut Handles, Capped

| Inches, | 8 | 9 | 10 |
|---|---|---|---|
| Per Dozen, | $13.00 | 14 00 | 15 00 |

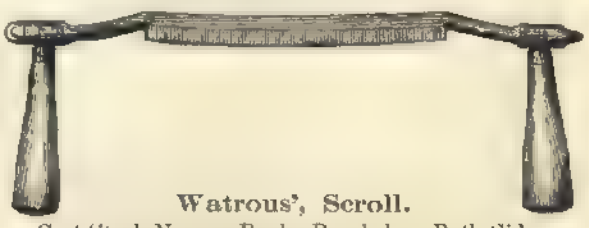
Quarter Dozen in a Package.



### Watrous', Coach Makers'.

Cast Steel Wide Blade, Beveled on Both Sides, Adjustable Handles.

| Inches, | 8 | 9 | 10 |
|---|---|---|---|
| Per Dozen, | $12.50 | 14.00 | 15.50 |



### Watrous', Scroll.

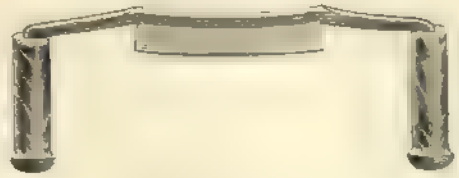
Cast Steel, Narrow Blade, Beveled on Both Sides, Adjustable Handles.

| Inches, | 7 | 8 |
|---|---|---|
| Per Dozen, | $10.50 | 12.00 |

Half Dozen in a Box.

# Coopers' Tools.

D. R. Barton's.



**Hoop Knives.**

| Inches, | 7 | 8 | 9 | 10 |
|---|---|---|---|---|
| Per Dozen, | $11.25 | 13.25 | 15.25 | 17.25 |

**Backing Knives.**

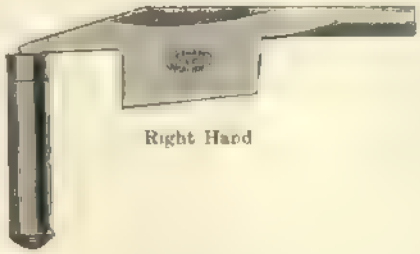
| Inches, | 7 | 8 |
|---|---|---|
| Per Dozen, | $12 50 | 14 50 |

**Hollowing Knives.**

| Inches, | 4 | 4½ | 5 | 5½ |
|---|---|---|---|---|
| Per Dozen, | $12.00 | 12.00 | 12.00 | 12.50 |
| Inches, | | 6 | 7 | 8 |
| Per Dozen, | | $12.50 | 12 50 | 14.50 |

**Stave Knives.**

| Inches, | 7 | 8 |
|---|---|---|
| Per Dozen, | $12 50 | 14.50 |



Right Hand

**Champer Knives.**

Either Right or Left Hand.

| Inches, | 4 | 4½ | 5 | 5½ |
|---|---|---|---|---|
| Per Dozen, | $15 00 | 17.50 | 18.50 | 20.50 |
| Inches, | | 6 | 6½ | 7 |
| Per Dozen, | | $22.50 | 24.50 | 26.50 |

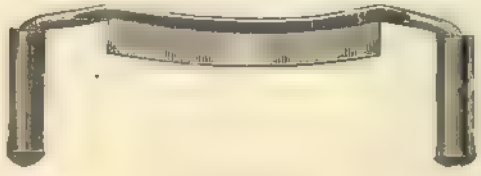
**Heading Knives.**

| Inches, | 9 | 10 | 12 | 14 | 16 |
|---|---|---|---|---|---|
| Per Dozen, | $16.50 | 18.50 | 22.50 | 26.50 | 30 50 |

**Ohio Special, Heading Knives.**

| Inches, | 12 | 14 |
|---|---|---|
| Per Dozen, | $36.00 | 45 00 |

# Shingle Knives.



**D. R. Barton's.**

| Inches, | 12 | 14 |
|---|---|---|
| Per Dozen, | $18.00 | 20.00 |

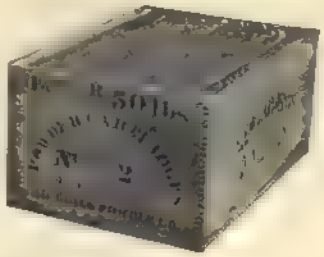
**Ohio Tool Co.'s.**

| Inches, | 12 | 14 |
|---|---|---|
| Per Dozen, | $25 00 | 30.00 |

Quarter Dozen in a Package.

# Dynamite.

Hercules Powder Co.'s.



The Standard Size of Cartridge is 1¼x8 in

| | Per Pound |
|---|---|
| 40 per cent Nitro Glycerine, | $0 30 |
| 50 per cent Nitro Glycerine, | .35 |
| 60 per cent Nitro Glycerine, | 40 |
| 70 per cent Nitro Glycerine, | 50 |

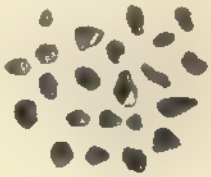
50 or 100 Cartridges or Sticks in a Box.

# Blasting Powder.

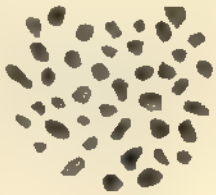
Austin Powder Co.'s.

C

F



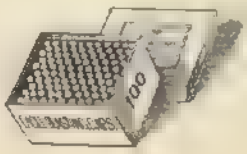
FF



FFF

| | Per keg |
|---|---|
| Blasting Powder in 25 lb. Kegs, C, F, FF, FFF, | $3 00 |

## Dynamite Caps.



| | Per 100 |
|---|---|
| No. XXX—Silver Medal, Triple Force, | $1.25 |
| 100 in a Metal Box. | |

Dynamite Caps will in no case be shipped with other goods. They must be shipped direct from Magazine.

## Safety Fuse.

| | | Per 100 Feet |
|---|---|---|
| Single Tape, | Common Cotton Fuse, | $0.60 |
| Single Tape, | Waterproof Fuse, | .75 |
| Double Tape, | Waterproof Fuse, | 1 20 |
| Gutta Percha, | Waterproof Fuse, | 1 00 |

# Gun Implements.

Measure

Loader.

Shell Extractor.

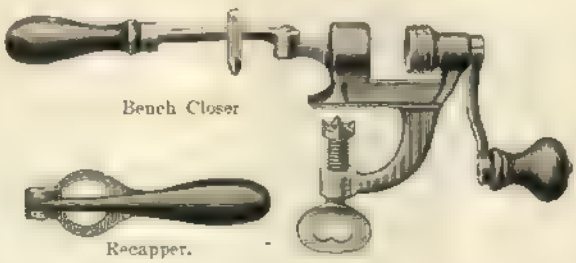
Recapper

## Loading Sets.

Per Dozen Sets.

**No. 2SX**– For Brass Shells, contains one each, Loader, Measure, Recapper and Shell Extractor, 10, 12 and 16 Gauge, . . . . . $4.25

Loader



Bench Closer

Measure.

Shell Extractor

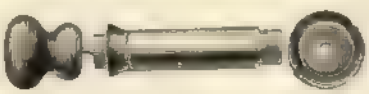


Recapper.

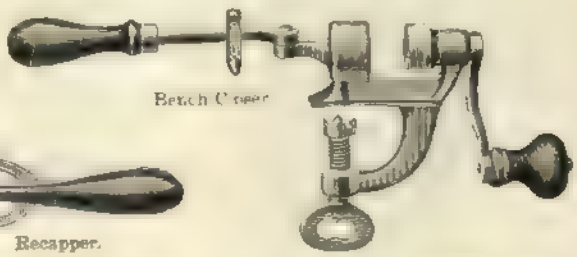
## Loading Sets.

Per Dozen Sets.

**No. 3SX**–For Brass and Paper Shells, contains one each, Bench Closer, Loader, Recapper, Measure and Shell Extractor, 10, 12 and 16 Gauge, . . . . . $10.00



Loader.



Bench Closer

Measure.

Recapper.

Shell Extractor.

Scratch Brush.

Swab.

Wiper

Rod.

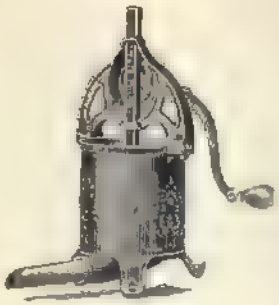
## Loading Sets.

Per Dozen Sets

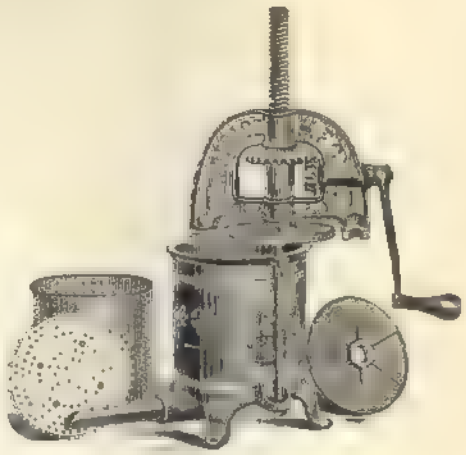
**No. 1SX** For Brass and Paper Shells, contains one each, Bench Closer, Loader, Recapper, Measure, Shell Extractor, Rod with Swab, Scratch Brush and Wiper, 10, 12 and 16 Gauge, . . . . . $34.00

One Set in a Box.

# Sausage Stuffers, Lard and Fruit Presses.



No. 5

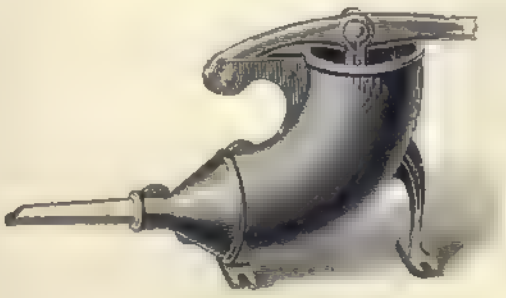


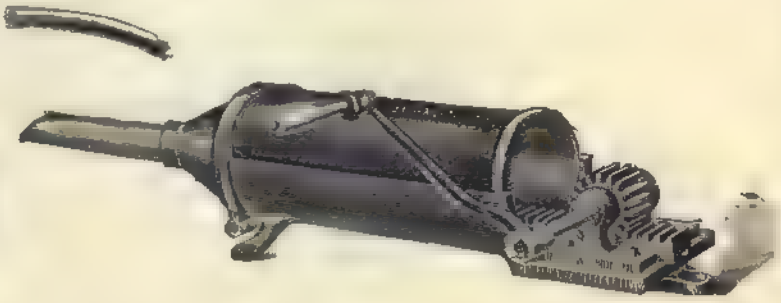
Nos 15 to 40

**Enterprise.**

| | | Each |
|---|---|---|
| **No. 5**—2 Qt., Japanned, with Rack Movement, | | $3 75 |
| **No. 15**—2 Qt., Japanned, with Screw Movement, | | 4 50 |
| **No. 25**—4 Qt., Japanned, with Screw Movement, | | 5 50 |
| **No. 35**—8 Qt., Japanned, with Screw Movement, | | 7 00 |
| **No. 40**—8 Qt., Tinned, with Screw Movement, | | 8 00 |

# Sausage Stuffers.





**Perry's.**

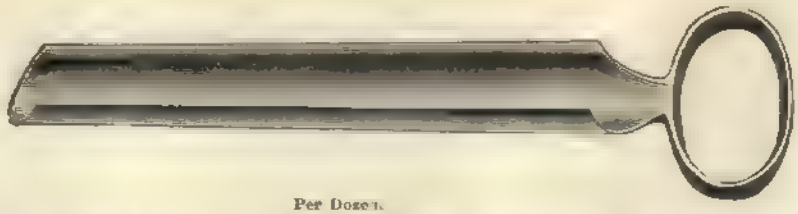
| | Per Dozen. |
|---|---|
| **No. 1** Family Size, Lever Handle, | $15 00 |
| **No. 0**—Butchers' Size, Lever Handle, | 21.00 |

**Railroad.**

| | Per Dozen |
|---|---|
| **No. 10**—Japanned, Heavy Tin Cylinder, | $15.00 |

Half Dozen in a Box

# Cheese Tryers.

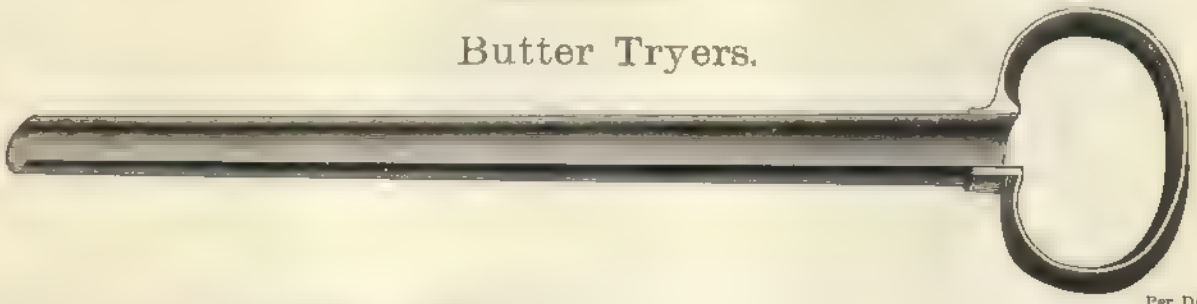


| | Per Dozen. |
|---|---|
| No. 4—5x⅝ in., Cast Steel, Nickel Plated, | $14 00 |
| No. 4—6x¾ in., Cast Steel, Nickel Plated, | 16.00 |

Half Dozen in a Box.

| | Per Dozen. |
|---|---|
| No. 9—4x$\frac{7}{16}$ in., Cast Steel, Nickel Plated, Riveted Handle, | $5.50 |
| No. 11—6x$\frac{7}{16}$ in., Cast Steel, Nickel Plated, Riveted Handle, | 6.00 |

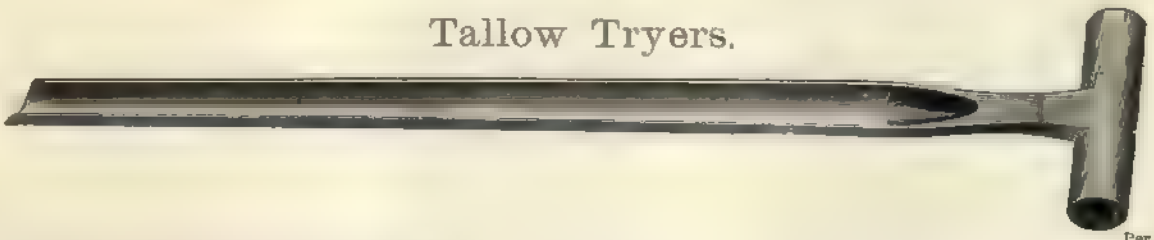
## Butter Tryers.



| | Per Dozen. |
|---|---|
| No. 5—18 in., Cast Steel, Nickel Plated, Polished Handle, | $10 75 |
| No. 5—21 in., Cast Steel, Nickel Plated, Polished Handle, | 11 50 |
| No. 5—24 in., Cast Steel, Nickel Plated, Polished Handle, | 12 25 |

Half Dozen in a Box.

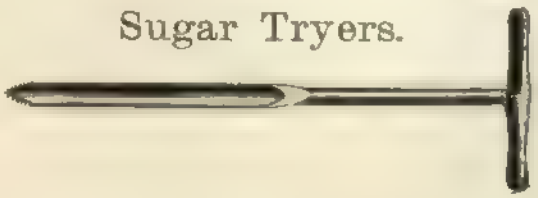
## Tallow Tryers.



| | Per Dozen. |
|---|---|
| No. 10—30 in., Forged Solid Cast Steel, Polished. | $50 00 |
| No. 10—36 in., Forged Solid Cast Steel, Polished, | 60.00 |

Half Dozen in a Box.

## Sugar Tryers.



| | Per Dozen. |
|---|---|
| No. 11—10 in., Solid Cast Steel, Rosewood Handle, | $25 00 |
| No. 11—12 in., Solid Cast Steel, Rosewood Handle, | 30.00 |
| No. 11—15 in., Solid Cast Steel, Rosewood Handle, | 38.00 |
| No. 11—18 in., Solid Cast Steel, Rosewood Handle, | 48.00 |

## Ham Tryers.

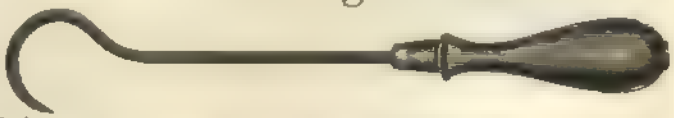
| | Per Dozen. |
|---|---|
| No. 1—Cast Steel, Wood Handle, Western Pattern. | $4 50 |

## Ham Stringers.

| | Per Dozen. |
|---|---|
| No. 1 Cast Steel Wood Handle, | $6 00 |

One Dozen in a Box

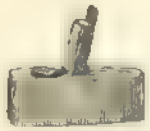
## Selecting Hooks.



| | Per Dozen. |
|---|---|
| No. 13—$\frac{1}{16}$ in., Cast Steel, 13 in Long, Wood Handle, | $3 25 |

# Fancy Planes.

Ohio Tool Co.'s.



**Tooth.**

| | Each. |
|---|---|
| No. 30—7 in. Long, 2 in. Cast Steel Single Iron, | $1.00 |
| No. 30—7 in. Long, 2⅛ in. Cast Steel Single Iron, | 1.10 |
| No. 30—7 in. Long, 2¼ in. Cast Steel Single Iron, | 1 20 |

**Mitre.**

| | Each |
|---|---|
| No. 31—9 in. Long, Smooth Shape, 1⅝ in. Cast Steel Single Iron, | $0.75 |
| No. 31A—9 in. Long, Square Shape, 1⅝ in. Cast Steel Single Iron, | .75 |

**Nosing Moulding.**

| | Each. |
|---|---|
| No. 89—Depth, ⅜ and ⅞ in., | $0 90 |
| No. 89—Depth, 1 and 1½ in., | 1.00 |

**Nosing Step.**

| | Each. |
|---|---|
| No. 90—1 Iron, ⅞, 1, 1⅛ and 1¼ in., | $0.80 |
| No. 90—1 Iron, 1⅜ and 1½ in., | 1.00 |

**Nosing Step.**

| | Each. |
|---|---|
| No. 91—2 Irons, ⅞, 1, 1⅛ and 1¼ in | $1 10 |
| No. 91—2 Irons, 1⅜ and 1½ in., | 1 20 |
| No. 92—2 Irons, ⅞, 1, 1⅛ and 1¼ in., with Handle | $1 50 |
| No. 92—2 Irons, 1⅜ and 1½ in with Handle | 1 75 |

**Dados.**

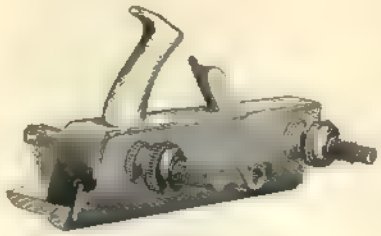
| | Each. |
|---|---|
| No. 47—Brass Side Stop, ½, ¾ and ⅞ in | $1 10 |
| No. 48—Screw Stop, ½, ⅝, ¾, ⅞, ¼, ⅛ and 1 in | $1 50 |

**Filletster.**

| | Each |
|---|---|
| No. 53—With Cutter and Brass Side Stop, | $1 40 |
| No. 54—With Cutter and Brass Side Stop, Boxed, | 1 85 |
| No. 55—With Cutter and Brass Screw Stop Boxed. | $2 50 |

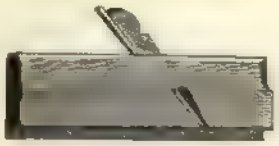
# Fancy Planes.

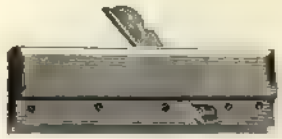
Ohio Tool Co.'s.



**Plank Match.**

| | Per Pair |
|---|---|
| **No. 84**—Match, with Screw Arms, Plated, | $4 00 |





**Board Match.**

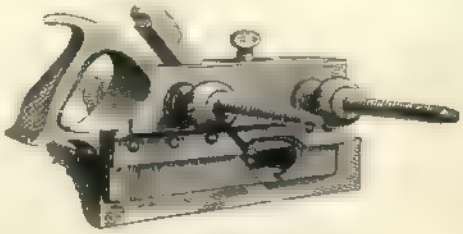
| | Per Pair |
|---|---|
| **No. 75**—Match, ¼, ⅜, ½ and 1 in., | $1.50 |
| **No. 76**—Match, Plated, ¼, ⅜, ½ and 1 in., | 1.75 |

**Skew Rabbet.**

| | Each |
|---|---|
| **No. 116** Rabbet, ¼, ⅜, ½, ¾ and 1 in., | $0.60 |
| **No. 116**—Rabbet, 1¼ and 1½ in., | .65 |
| **No. 116**—Rabbet, 1½ in., | 70 |
| **No. 116**—Rabbet, 1¾ in., | 80 |
| **No. 116**—Rabbet, 2 in., | .90 |

**Jack Rabbet.**

| | Each |
|---|---|
| **No. 119**—Rabbet 1¼, 1½, 1¾ and 2 in., Two Side Cutters, Oblique Handle, | $1.90 |
| **No. 119½** Rabbet, 1¼, 1½, 1¾ and 2 in., Two Side Cutters, Side Handle | 1 90 |



**Panel Plow.**

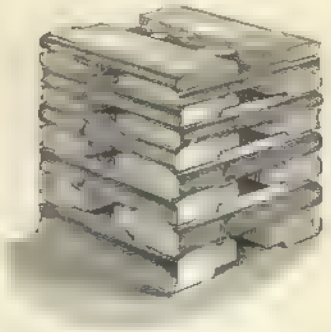
| | Each |
|---|---|
| **No. 96½**—Beech, 8 Irons Screw Stop with Handle | $5.50 |
| **No. 97** Beech 8 Irons, Screw Stop Boxed Fence with Handle, | 6 85 |
| **No. 101** – Beech 8 Irons Boxwood Arms, Boxed Fence, with Handle | $8 00 |
| **No. 107A**—Applewood, 8 Irons, Screw Stop Boxed Fence, with Handle, | 7.75 |

# Plow Plane Arms.

| | Per Pair. |
|---|---|
| Applewood Plow Plane Arms, | $2.00 |

# Fancy Planes.

Ohio Tool Co.'s.



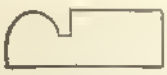
## Hollows and Rounds.

| | Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| No. 72 | Inches, | ¼ | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ |
| | Works on Circle, Inches, | ½ | ½ | 1 | 1¼ | 1½ | 1⅝ | 2 | 2⅛ | 2½ |
| | Per Pair, | $1.00 | 1.00 | 1 00 | 1.00 | 1.00 | 1 00 | 1 15 | 1 15 | 1 15 |

No. 72—Set of 9 Pairs, Assorted from 1 to 9, $9 45

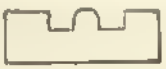
| | Nos. | 10 | 11 | 12 |
|---|---|---|---|---|
| No. 73 | Inches, | 1⅝ | 1⅞ | 1⅝ |
| | Works on Circle, Inches, | 2¼ | 3 | 3¼ |
| | Per Pair, | $1.35 | 1.35 | 1.35 |

In ordering half pairs of Hollows and Rounds be careful to give number of Plane, and whether Hollow or Round



### Side Bead.

| | Each. |
|---|---|
| No. 37—Single Boxed, ⅛ to ¼ in., | $0 50 |
| No. 37—Single Boxed, ⅜ to ½ in., | .55 |
| No. 37—Single Boxed, ⅝ to 1 in, | .70 |
| No. 37—Single Boxed, 1⅛ to 1¼ in., | .90 |



### Center Bead.

| | Each. |
|---|---|
| No. 41—Double Boxed, ⅛ to ¼ in, | $0 60 |

### Reeding.

| | Each |
|---|---|
| No. 122—Two Beads, ⅛ to ½ in, | $1.80 |

### Cove.

| | Each. |
|---|---|
| No. 43—⅛ to ¾ in., | $0.50 |
| No. 43—⅞ to 1 in, | .65 |

### Casing Moulding.

| | Each. |
|---|---|
| No. 43⅛—With Fence, ⅛ to ¾ in, | $0 80 |
| No. 43⅛—With Fence, ⅞ to 1 in., | .90 |

### Casing Moulding.

| | Each. |
|---|---|
| No. 43¼—⅛ to ¾ in, | $0 80 |
| No. 43¼—⅞ to 1 in, | 90 |
| No. 43¼—1¼ in., | 1 00 |

### Quarter Round.

| | Each. |
|---|---|
| No. 43½—⅛ to 1 in, | $0 90 |
| No. 43½—1¼ in., | 1 10 |

### Roman Reverse Ogee.

| | Each |
|---|---|
| No. 62¼—With Fence, ⅜ to ½ in | $0 80 |
| No. 62¼—With Fence, ⅞ to 1 in. | 90 |
| No. 62¼—With Fence, 1⅛ in., | 1 05 |
| No. 62¼—With Fence, 1⅜ in., | 1 20 |

### Roman Reverse Ogee.

| | Each |
|---|---|
| No. 62½—⅜ to ⅝ in, | $0 75 |
| No. 62½—¾ to 1 in, | 85 |
| No. 62½—1¼ in., | 1 00 |
| No. 62½—1½ in., | 1 15 |

# Plane Irons.

### Cut or Single.

**Sargent's.**

| Inches, | 1¾ | 2 | 2⅛ | 2⅜ | 2⅝ |
|---|---|---|---|---|---|
| Per Dozen, | $3 36 | 3.60 | 4.44 | 4.44 | 4.80 |

**Ohio Tool Co.'s.**

| Inches, | 1⅛ | 1¾ | 1⅞ | 2 | 2⅛ | 2¼ |
|---|---|---|---|---|---|---|
| Per Dozen, | $2.25 | 2.25 | 2.38 | 2.50 | 2.63 | 2.88 |
| Inches, | 2⅜ | 2½ | 2⅝ | 2¾ | 3 | |
| Per Dozen, | $3.13 | 3.38 | 3.63 | 4 00 | 5.00 | |

**Barton's.**

| Inches, | 1⅛ | 1¾ | 1⅞ | 2 | 2⅛ | 2¼ |
|---|---|---|---|---|---|---|
| Per Dozen, | $2.50 | 2.75 | 2.95 | 3.15 | 3.35 | 3.70 |
| Inches, | 2⅜ | 2½ | 2⅝ | 2¾ | 3 | |
| Per Dozen, | $4 10 | 4 50 | 4.90 | 5 50 | 7.00 | |

### Double.

**Sargent's.**

| Inches, | 1¾ | 2 | 2⅛ | 2⅜ | 2⅝ |
|---|---|---|---|---|---|
| Per Dozen, | $6.00 | 6.60 | 7 80 | 7 80 | 8.40 |

**Ohio Tool Co.'s.**

| Inches, | 1⅛ | 1¾ | 1⅞ | 2 | 2⅛ | 2¼ |
|---|---|---|---|---|---|---|
| Per Dozen, | $3.75 | 4 00 | 4 00 | 4.12 | 4 25 | 4 50 |
| Inches. | | 2⅜ | 2½ | 2⅝ | 2¾ | 3 |
| Per Dozen, | | $4.75 | 5 25 | 5 50 | 6 50 | 7 50 |

**Barton's.**

| Inches, | 1⅛ | 1¾ | 1⅞ | 2 | 2⅛ | 2¼ |
|---|---|---|---|---|---|---|
| Per Dozen, | $5.50 | 6.00 | 6.25 | 6.45 | 6 65 | 7 00 |
| Inches, | 2⅜ | 2½ | 2⅝ | 2¾ | 3 | |
| Per Dozen, | $7 10 | 8 20 | 9.00 | 10 15 | 11.70 | |

One Dozen in a Box.

Half Dozen in a Box.

## Bailey's Improved.

### Cut or Single.

| Inches, | 1¼ | 1⅝ | 1¾ | 2 | 2⅛ | 2⅜ | 2⅝ |
|---|---|---|---|---|---|---|---|
| Per Dozen, | $1 96 | 2 52 | 2.76 | 3 00 | 3.24 | 3 36 | 3 84 |

### Double.

| Inches, | 1¼ | 1⅝ | 1¾ | 2 | 2⅛ | 2⅜ | 2⅝ |
|---|---|---|---|---|---|---|---|
| Per Dozen, | $3 84 | 4 20 | 4.56 | 5.04 | 5 40 | 5 64 | 6.00 |

### For Bailey's and Stanley's Block Planes.

| | Per Dozen |
|---|---|
| 1⅛ in. for Nos. 9½, 9¾, 15 and 15½, | $2 00 |
| 1⅝ in. for Nos. 18 and 19, | 2.00 |
| 1 in. for No 101, | 60 |
| 1½ in. for Nos. 102 and 103, | 1 00 |
| 1⅝ in. for Nos. 110 and 130, | 1.50 |
| 1⅜ in. for No 220, | 2.00 |

### For Stanley's Scraper Planes.

| | Each |
|---|---|
| Extra Toothing Cutters for No 112 Scraper Plane, 22, 28 or 32 Teeth, | $0 30 |
| Extra Veneer Cutters for No. 112 Scraper Plane, | 20 |

### For Sargent's Block Planes.

| Inches, | 1¼ | 1¾ |
|---|---|---|
| Per Dozen, | $1 50 | 2.04 |

## Chaplin's.

### Single Irons.

| Inches, | 2 | 2⅛ | 2¼ | 2⅜ |
|---|---|---|---|---|
| Per Dozen, | $4.25 | 4.60 | 5.00 | 5.60 |

### Block Plane Irons.

| | Per Dozen |
|---|---|
| 1⅝ in. for Nos. 20 and 80, | $3 30 |

# Skew Rabbet Plane Irons.

### Ohio Tool Co.'s.

| Inches, | ¼ | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ | 1¾ | 2 |
|---|---|---|---|---|---|---|---|---|---|
| Per Dozen, | $1.15 | 1.20 | 1.25 | 1.30 | 1.40 | 1.55 | 1.65 | 1.85 | 2 00 |

# Plow Plane Irons.

### Ohio Tool Co.'s.

| | Per Set |
|---|---|
| Cast Steel, in Sets of 8, One Each, 3/16, ¼, 5/16, ⅜, 7/16, ½, 9/16 and ⅝ in., | $1.50 |
| | Each |
| Cast Steel, Separate Sizes, | $0.19 |

### Scrub Plane Irons.

| Inches, | 1¼ |
|---|---|
| Per Dozen, | $2.50 |

### Tooth Plane Irons.

| Inches, | 2 | 2⅛ | 2¼ |
|---|---|---|---|
| Per Dozen, | $3.00 | 3.50 | 3 75 |

# Farriers' Hammers.

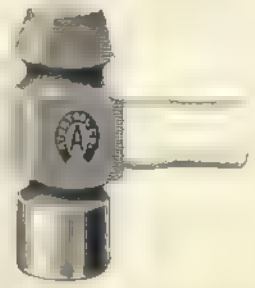
### Turning.

**Atha.**
Solid Cast Steel, Polished.

| | | Per Dozen. |
|---|---|---|
| No. 470 | Full Polished, Weight 2 to 3 Lbs., | $31 00 |
| No. 470½ | Half Polished, Weight 2 to 3 Lbs., | 30 00 |

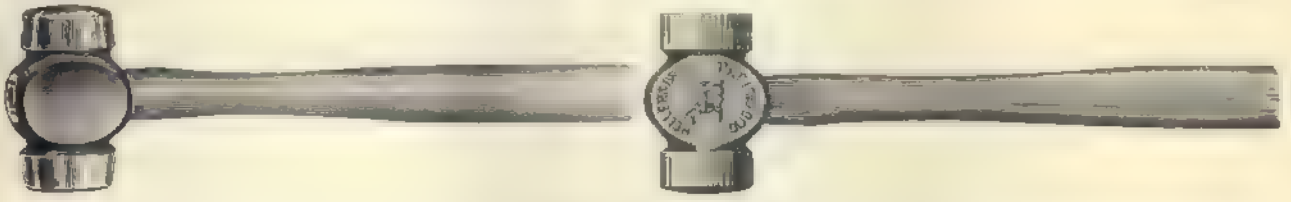
**Maydole's.**
Solid Crucible Cast Steel, Polished.

| | | Per Dozen. |
|---|---|---|
| No. 312 | Full Polished Weight 2 Lbs 8 Oz., | $24 00 |
| No. 313 | Full Polished, Weight 2 Lbs 4 Oz., | 23 00 |



### Rounding and Fitting.

| | Per Dozen. |
|---|---|
| No. 482—Mallery's Patent, Solid Cast Steel, Polished, Weight 2 Lbs. . . . . | $34.00 |



### Rounding and Fitting.

**Maydole's.**
Solid Crucible Cast Steel, Polished Faces

| | Per Dozen. |
|---|---|
| No. 212—Weight 2 Lbs 8 Oz., . | $24 00 |

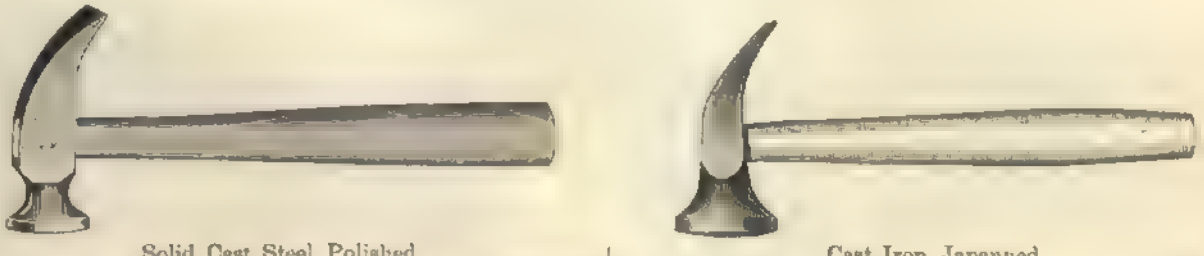
**Heller's.**
Solid Crucible Cast Steel, Polished Faces.

| | Per Dozen. |
|---|---|
| No. 250—Weight 2 Lbs 3 Oz., . | $28 80 |

Half Dozen in a Box.

Weights given do not include Handles

# Shoe Hammers.



Solid Cast Steel, Polished.

| | Per Dozen. |
|---|---|
| No. 1—Weight 13 Oz., . . . . . | $5 50 |
| No. 2—Weight 15 Oz., . . . . . | 5.75 |

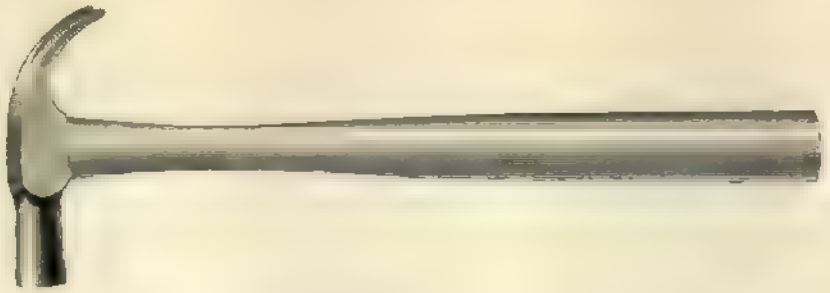
Half Dozen in a Box

Cast Iron, Japanned

| | Per Dozen. |
|---|---|
| No. 65—Weight 1 Lb., . . . | $2.00 |

One Dozen in a Box.

# Tack Hammers.



Per Dozen.

**No. 250** Brad or Ladies', Cast Iron, Full Polished. Hickory Handle, . . . . . $1.50

Per Dozen

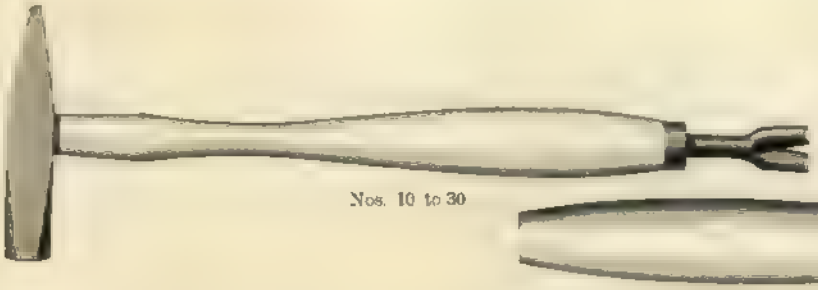
**No. 140**—Brad or Ladies', Solid Cast Steel, Full Polished, Hickory Handle, . . . $5.50

Per Dozen.

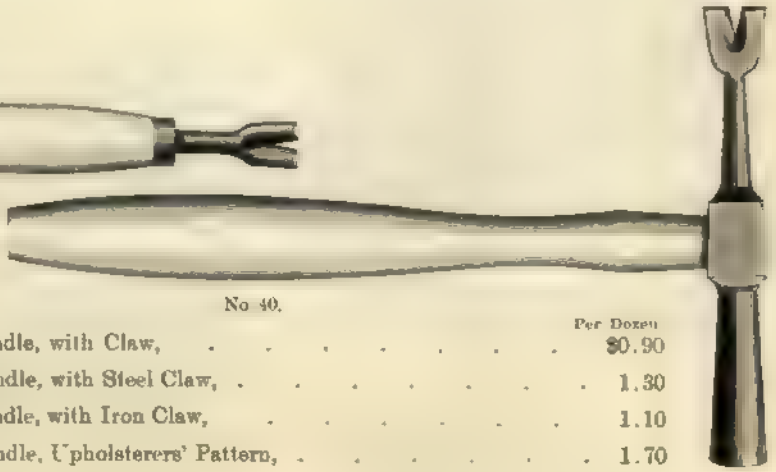
**No. 650**—Upholsterers' Pattern, Malleable Iron, Hardened Face, Full Ponshed, Hickory Handle, . . . . . $3.80

Per Dozen

**No. 55**—Upholsterers Pattern, Cast Iron Nickel Plated, Unpolished, Hardwood Handle, . $1 25



Nos. 10 to 30



No 40.

Per Dozen

**No. 10**—Cast Iron, Full Polished, Stained Handle, with Claw, . . . . . $0.90

**No. 15**—Cast Iron, Full Polished, Hickory Handle, with Steel Claw, . . . . . 1.30

**No. 25**—Cast Iron, Full Polished, Hickory Handle, with Iron Claw, . . . . . 1.10

**No. 40**—Cast Iron, Full Polished, Hickory Handle, Upholsterers' Pattern, . . . . . 1.70

One Dozen to a Box.

# Fish Baits.

**Shakespeare's Revolution Baits.**

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Per Dozen, | $8.00 | 9.00 | 12 00 |

Made of Aluminum Metal and is Practically Indestructible  Has no equal for Large and Small Mouth Bass.

**Shakespeare-Worden Bucktail Spinners.**

Per Dozen.

**No. 02**—Shakespeare-Worden Spinners, Specially Adapted for Bass Fishing, . . . . . $9.00

**Trolling Spoon Assortments.**

Per Card.

**Assortment A** Luminous, Consists of One Each No 4 Empire, No 5 Success, No 3 Acme, No 5 Fluted, No 3 Ohio Luminous Spoon and One No. 3 Irvin Luminous Spinner, Sewn on a Card, . . $3.00

**Assortment B** Non Luminous, Consists of One Each No. 4 Enterprise Embossed, No 5 Clipper, No 3 Rival, No. 5 Fluted, No. 3 Paragon Spoon and One No. 4 Irvin Spinner, Sewn on a Card, . . . 2 00

# Fish Baits.

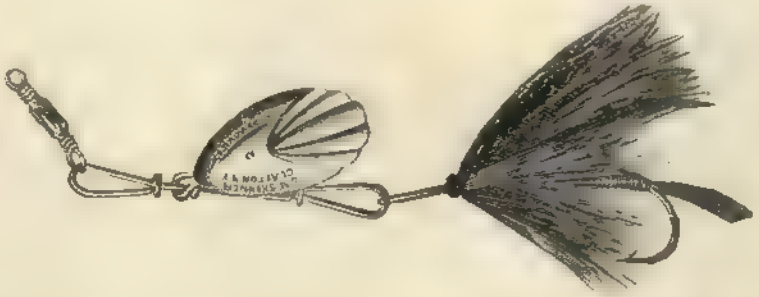
**Skinner's Casting Spoons.**

| | Per Dozen. |
|---|---|
| **No. 1**—Fluted Pattern, Nickel Plated, for Bass or Trout, | $2 50 |
| **No. 2**—Fluted Pattern, Nickel Plated, for Bass or Trout, | 2 50 |

For Bass the Spoon may be used Without Bait, but for Trout should be used With Bait

**Skinner's Casting Spoons, with Auxiliary Trail Hooks.**

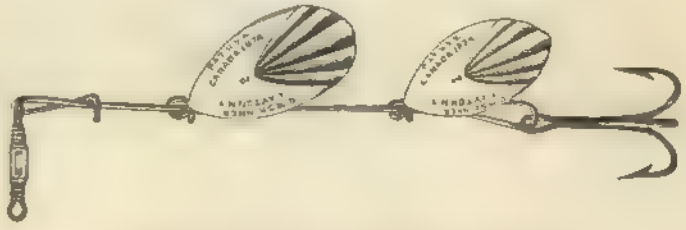
| | Per Dozen. |
|---|---|
| **No. 2X**—Fluted Pattern, Nickel Plated, with Nos. 3/0 and 1 Sprout Hooks on Gimp, | $3.00 |



**Skinner's Fly Spoons, with Interchangeable Pattern Flies.**

| | Per Dozen |
|---|---|
| **No. 2**—Fluted Pattern, Nickel Plated Spoon, with No. 1/0 Sprout Hook, | $4 00 |
| **No. 3**—Fluted Pattern, Nickel Plated Spoon, with No. 1/0 Sprout Hook, | 4.00 |

Flies Furnished—Brown Hackle, Grizzly King, Miller, Coachman, Montreal, Ibis and Silver Doctor.



**Skinner's Double Trolling Spoons.**

| | Per Dozen |
|---|---|
| **No. 21**—Fluted Pattern, Nickel Plated, | $4 00 |

# Safety Razors.

## Gillette.

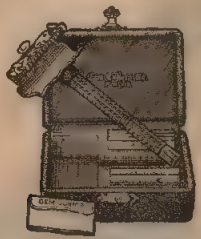
No. 460

No. 461

No. 00

SCHWABACHER HARDWARE CO.

| | Per Set |
|---|---|
| **No. 460**—Gillette Set, Triple Silver Plated Holder, Twelve New Process Blades, Put Up in Morocco Grain Leather Case, Plush Lined, | $5.00 |
| **No. 461**—Gillette Set, Triple Silver Plated Holder, Twelve New Process Blades, Fine Quality Badger Hair Lather Brush and Stick Shaving Soap in Triple Silver Plated Holders, Put Up in Morocco Grain Leather Case, Plush Lined, | 6.50 |
| **No. 00** Gillette Set, Triple Silver Plated Holder, Twelve New Process Blades, Fine Quality Badger Hair Telescope Lather Brush and Stick Shaving Soap in Triple Silver Plated Holders, Put Up in Goatskin Morocco Grain Leather Case, | 7.50 |
| **Extra Gillette Safety Razor Blades,** Twelve in a Set, | 1.00 |



### Gem Junior.

| | Each |
|---|---|
| **Gem Junior,** Silver Plated Holder, with Seven Extra Quality Blades, | $1.00 |

The construction of the Frame is very simple and insures sanitary conditions at all times; is strong and durable. Blades are made of best quality Razor Steel, hardened and tempered, having a keen and lasting edge.

| | Per Set |
|---|---|
| **Extra Blades** for Gem Junior Safety Razors, 7 in a Set, | $0.50 |

### Shavwell Safety Razors.

| | Each |
|---|---|
| **Shavwell Safety Razors,** Silver Plated Holder, with One Extra Quality Steel Blade, | $0.25 |

The construction of this Razor is such that the Blade may be instantly removed or inserted. The top of Frame rests on the Blade, eliminating possible Blade flexibility, as in some Safety Razors.

| | Per Set |
|---|---|
| **Extra Blades** for Shavwell Safety Razors, Five in a Set, | $0.25 |

# Lather Brushes.

Per Dozen

**Colonial Assortment,** Full Badger Hair Stock, Buffalo Horn Ferrules, Rosewood and White Birch Handles, . . . . . $11.00

Half Dozen in a Box.

Per Dozen

**Superba,** Mixed Badger Hair Stock, Medium Size, Full Nickel-Plated Ferrule and Handle, . . . . . $5.00

Half Dozen in a Box.

Per Dozen

**No. 100** Pilot, Pure White French Bristles, Twine-Wrapped Ferrule, Enameled Wood Handle, . . . . . $3.50

Half Dozen in a Box.

Per Dozen

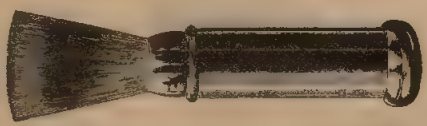
**No. 400**—Pure White French Bristles, Buffalo Horn Ferrule, Boxwood Handle, . . . . . $6.50

Half Dozen in a Box.

Per Dozen

**No. 300** Fine Mixed Badger Stock, Nickel-Plated Ferrule, Fancy Ebony Handle, Put Up in Individual Boxes, . . . $4.50

Half Dozen in a Carton.

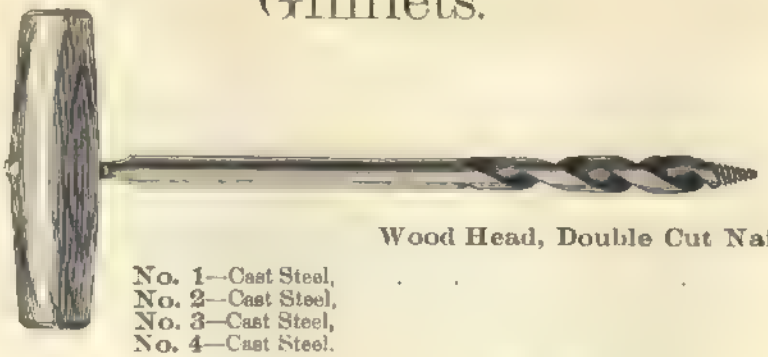


Per Dozen

**No. 500**—Badger Hair Stock, Small Size, for Travelers, Pocket Folding, Full Nickel Plated, . . . . . $10.00

Half Dozen in a Box.

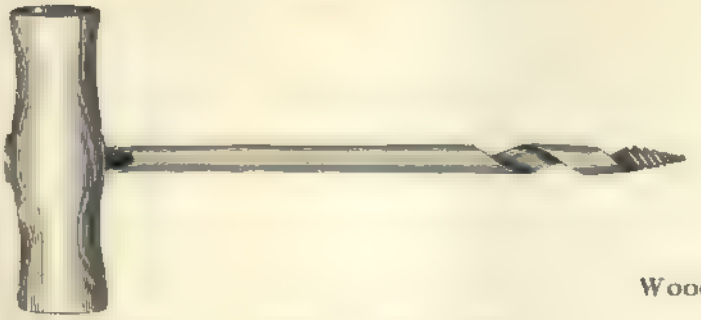
# Gimlets.



## Wood Head, Double Cut Nail.

| | Per Gross |
|---|---|
| **No. 1**—Cast Steel, | $ 9.50 |
| **No. 2**—Cast Steel, | 11 00 |
| **No. 3**—Cast Steel, | 12 50 |
| **No. 4**—Cast Steel. | 14.50 |

Quarter Gross in a Box

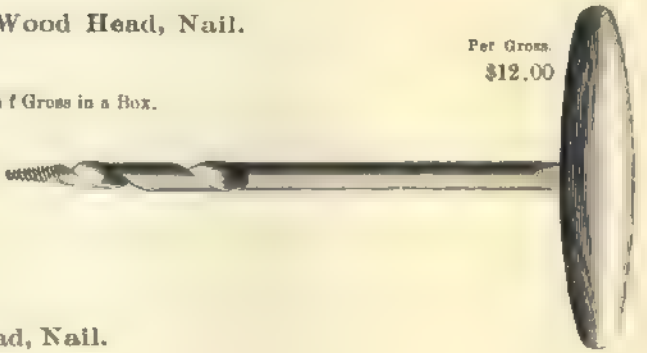


## Wood Head, Nail.

**No. 18**—Cast Steel. Assorted Sizes.

Per Gross. $12.00

Ha f Gross in a Box.



## Metal Head, Nail.

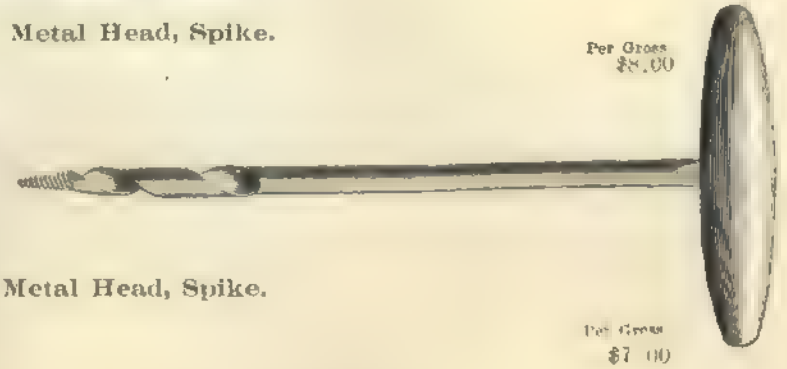
| | Per Gross |
|---|---|
| **No. 1**—Cast Steel. Assorted, Nos. 1, 2 and 3, | $4.50 |
| **No. 2**—Cast Steel. Assorted, Nos 2, and 3, | 5.00 |
| **No. 10**—Cast Steel, Assorted, Nos 1, 2 and 3, | 4.00 |

Half Gross in a Box

## Metal Head, Spike.

**No. 12**—Cast Steel, Assorted Sizes.

Per Gross $8.00



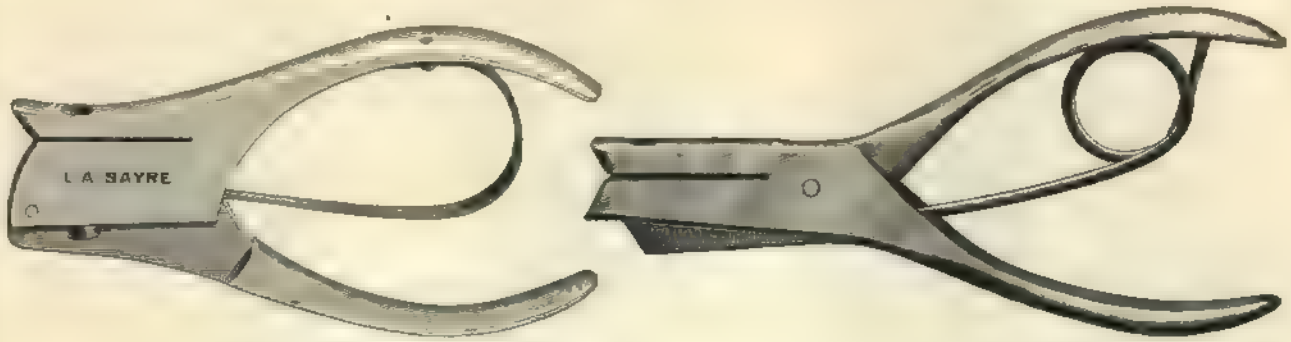
## Metal Head, Spike.

**No. 70**—Cast Steel, Assorted Sizes,

Per Gross $7 00

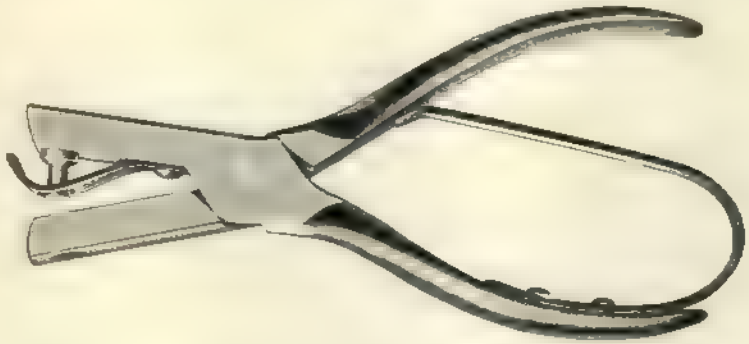
Quarter Gross in a Box.

# Conductors' Punches.



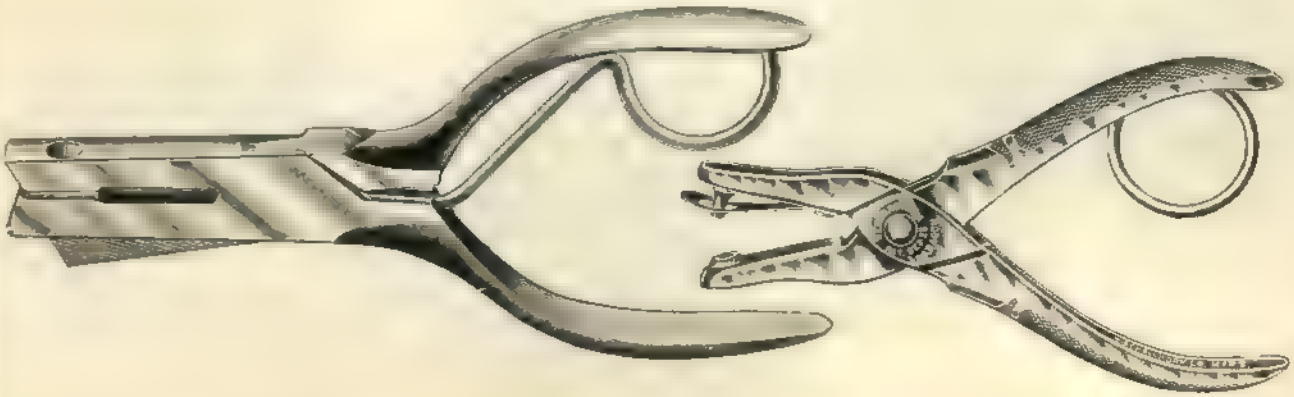

**No. 1**—Cast Steel, Nickel Plated, Fancy Dies, . Per Dozen. $30.00
One-Twelfth Dozen in a Box

**No. 12**—Cast Steel, Polished, Fancy Dies, Per Dozen $8.00
Half Dozen in a Box



**No. 200**—Cast Steel, Nickel Plated, Round Dies, Per Dozen $12 00
One Dozen in a Box

**No. 215** Cast Steel, Nickel Plated, Fancy Dies, Per Dozen $16.00
Half Dozen in a Box



**No. 219**—Cast Steel, Nickel Plated, Fancy Dies, Length of Reach ⅞ in., . . . Per Dozen $13 00

**No. 44**—Pressed Steel, Nickel Plated, Fancy Dies, Per Dozen $8 00

One Dozen in a Box.

# Motor Headlights.

Code Kochloch — Each

**No. 142** 21¾ In. High, 12 In. Wide, 9½ In. Deep, 10 In. Headlight with Copper Silver Plated Reflector, with Dashboard Attachment, No. 87 Headlight Chimney, Headlight Burner, Moehring Circular Wick, . . . . . $12.00

Weight 35 lbs. Each.

A practical and reliable Oil Headlight for Trolley and Cable Cars. Is fitted with silver-plated reflector and regular locomotive headlight style of burner. Gives a powerful light and the draught to the burner is so arranged that it will not blow out or jar out in passing over frogs and switches.

SCHWABACHER HARDWARE CO.

## Search Lights.

**Cold Blast, Tubular.**

Code Kochofen — Each

**No. 20**—15 In. High, 12 In. Tin Reflector, 7 In. Deep, No. 0 Cold Blast Globe, No. 2 Burner, 1 In. Wick, . . . . $2.50

Weight 8 lbs. Each.

Six in a Case

Code Kochrohr

**No. 40**—22 In. High, 16 In. Tin Reflector, 8½ In. Deep, No. 4 Globe, No. 9 Burner, 1½ In. Wick, . . . . . 6.00

Weight 25 lbs. Each.

One in a Case.

## Gasoline Torches.

Code Kochtopf — Each

**No. 69**—Gasoline Torches, . . . . $2.00

Weight 4½ Each.

Code Kodata

**Extra Burners**, for No. 69 Torches, . . 1.25

Code Koddiger

**Extra Valves**, for No. 69 Torches, . . .35

Gives a light equal to eight or ten gas lights, at a cost of less than a cent an hour. This torch will work in a wind that would quickly extinguish other lights, and is therefore suitable for outdoor use.

# Police Lanterns.

**Regular.**

Code Kodrea — Per Dozen

**No. 606** 3 In. Bull's Eye, Japanned Tin Case 7 In. High, Oil Pot Capacity ¼ Pint, . . . . . $7.00

Weight 15 lbs. Per Dozen.

Flash Light.

Code Kodrell — Per Dozen

**No. 607**—3 In. Bull's Eye, Japanned Tin Case, . . . . . $9.00

Code Koebeest

**No. 608**—3 In. Bull's Eye, Polished Brass Case, . . . . . 36.00

Weight 20 lbs. Per Dozen.

Light Controlled by Lever with Thumb Pressure.

Two Dozen in a Case.

# Kitchen and Side Lamps.

Code Koedcrat — Per Dozen

**No. 10**—Bracket, Bronzed Finish Bracket, Glass Filler Fount, No. 2 Burner and Chimney, 8 In. Glass Reflector, . . . . . $15.00

Weight 48 lbs. Per Dozen.

Half Dozen in a Case.

Code Koedilla — Per Dozen

**Radiant**, Tin Frame and Reflector, Glass Fount, No. 2 Sun Chimney and Burner, 1 In. Wick, . . . . . $7.50

Weight 28 lbs. Per Dozen.

Code Koegras — Per Dozen

**Climax**, Tin Fount and Reflector, No. 2 Sun Chimney and Burner, 1 In. Wick, . . . $7.50

Weight 20 lbs. Per Dozen.

Six Dozen in a Case.

# Hand Beaders.

Each

**No. 66**—Universal, Nickel Plated Stock, with Seven Steel Cutters, . . . . . $1.00
Extra Cutters or Blanks for Same, . . . . . .05

The No. 66 Hand Beader can be used for Beading, Reeding or Fluting straight or irregular Surfaces, and is invaluable to Woodworkers. Seven superior Steel Cutters go with each Tool. Both ends are sharpened, thus providing six ordinary sizes of Beads, four sets of Reeds, two Fluters and a double Router Iron, ⅛ and ¼ in.

One in a Box

# Cabinet Scrapers.

Each

**No. 80**—11 in. Raised Handles, 2⅜ in. Blade, . $1.00

The Blade of this Scraper can be sprung to a slight curve by the thumb-screw shown at the center of cut, which will be found a great advantage in working with this tool.

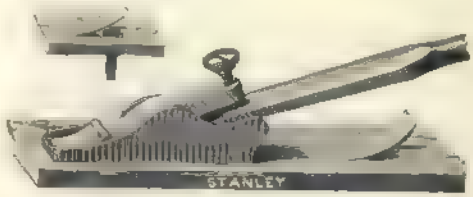
One in a Box

Extra Quality Cast Steel

| Nos. | 5 | 6 |
|---|---|---|
| Size, Inches | 2½x5 | 3x6 |
| Per Dozen, | $0 75 | .90 |

One Dozen in a Box

# Chisel Gauges.




Per Dozen

**No. 96**—Stanley's Adjustable, Steel Stock, . . . . . $2.40

# Jointer Gauges.

Cut Showing Mode of Adjustment.

Each

**No. 100**—Alexander's, Adjustable, . $1 50

Can be attached to any Wooden Plane, Jack or Jointer. It is adjustable for squaring, or to any desired bevel.

One in a Box.

Each

**No. 200**—Shepardson's, Adjustable, . . $2.00

Can be attached to any Iron Plane. It is adjustable for squaring or to any desired bevel.

One in a Box.

# Marking Gauges.

Per Dozen

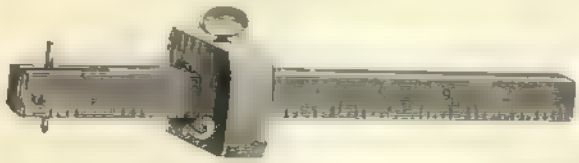
**No. 0**—Beechwood. Boxwood Thumb Screw. Marked. Steel Point, . . . . . $0.75

**No. 61**—Beechwood, Boxwood Thumb Screw, Oval Bar, Marked. Steel Point, . . . . 1.00

**No. 62**—Beechwood. Polished. Boxwood Thumb Screw, Oval Bar, Marked, Adjusting Steel Point, . . . . . 2 00

**No. 64**—Polished, Plated Head. Boxwood Thumb Screw, Oval Bar, Marked, Adjusting Steel Point. . . . . 2.75

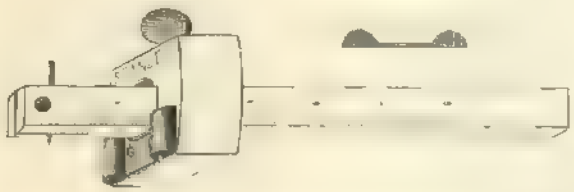
One Dozen in a Box



Per Dozen

**No. 65**—Boxwood, Polished, Plated Head. Brass Thumb Screw and Shoe. Oval Bar. Marked. Adjusting Steel Point, . . . . $6.00

Half Dozen in a Box



Per Dozen

**No. 161**—Beechwood. Boxwood Thumb Screw. Oval Bar. Marked, Steel Point. . . . . $2.00

**No. 165**—Boxwood. Brass Thumb Screw and Shoe. Plated Head, Marked, Adjusting Steel Points, . . . . . 7 00

**No. 171**—Beechwood. Plated Head and Bars. Brass Thumb Screws and Shoes. Marked, Adjusting Steel Points, . . . . . 9.00

**No. 172**—Beechwood. Boxwood Thumb Screws, Marked. Adjusting Steel Points. 5.00

Half Dozen in a Box.

Gauges Nos. 161 to 172 have a Brass Face with two ribs or projections, attached to one side of the Gauge Head (see Engraving), which enables the owner to run a gauge line with perfect steadiness and accuracy around curves of any degree, and either concave or convex. The Gauge Head is reversible, and the flat side can be used for all ordinary work

Per Dozen

**No. 71**—Double (Marking and Mortise Gauge combined). Beechwood, Polished, Plated Head and Bars, Brass Thumb Screws and Shoes. Oval Bars, Marked, Steel Points, . $8.00

**No. 72**—Double (Marking and Mortise Gauge combined), Beechwood, Polished. Boxwood Thumb Screws, Oval Bars, Marked, Steel Points, . . . . . 4.00

Half Dozen in a Box

Per Dozen

**No. 77**—Rosewood, Plated Head, Improved Screw Slide, Brass Thumb Screw and Shoe, Oval Bar, Marked, Steel Points. . $10.00

Half Dozen in a Box.

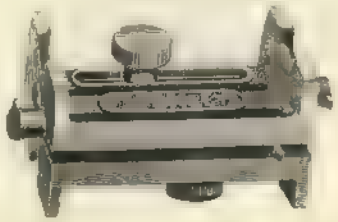
**Stanley's Butt and Rabbet.**

Per Dozen

**No. 92**—Rosewood Head, Movable Steel Plate $\frac{1}{8}$ in Thick, Brass Thumb Screw and Bars. Marked. Steel Blades, . . . . $15.00

This Gauge has two bars, both of brass, one moveable within the other The two steel blades or markers at the extreme end of the inner bar, can be moved to any position by means of thumb screw at opposite end of Gauge

Half Dozen In a Box



**Stanley's Improved Butt Gauge.**

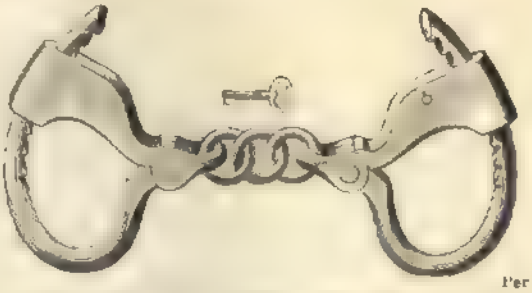
Each

**No. 95**—Nickel Plated, . . . . . $0.75

A Metallic Butt Gauge, having one bar with two steel cutters fixed upon it. When the cutter at the outer end of this bar is set for gauging on the edge of the door, the cutter at the inner end of the bar is already set for gauging from the back of the jamb. The other bar has a steel cutter to accurately gauge for the thickness of the butt The form of this tool is convenient for carrying in the pocket. It is so constructed that the bars cannot fall out of the stock

One in a Box

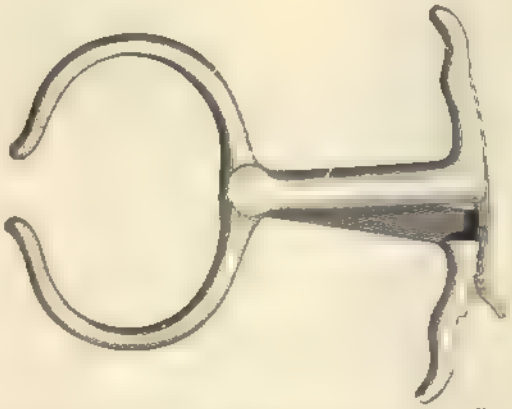
# Hand Cuffs.

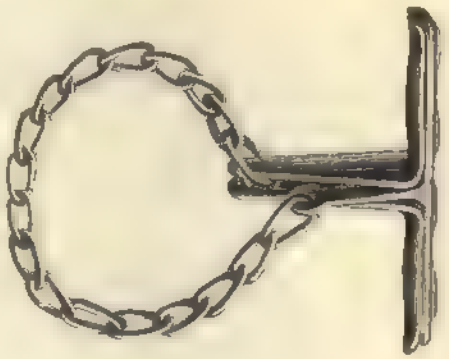


| | Per Pair. |
|---|---|
| No. 1 Bean's Hand Cuffs, Polished, | $4 00 |
| No. 10 Tower's Hand Cuffs, Adjustable, Double Locking, Polished, | $4 00 |
| No. 12—Tower's Hand Cuffs, Adjustable, Double Locking, Nickel Plated, | 4.75 |

One Pair in a Box.

# Police Nippers.

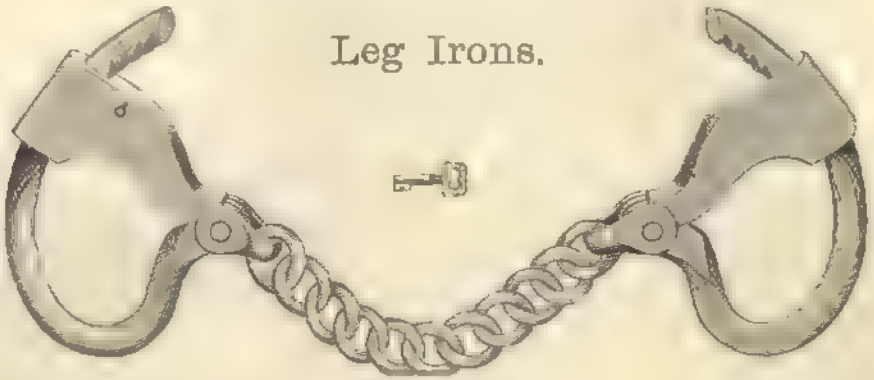




| | Per Dozen. |
|---|---|
| No. 19—Phillips' Police Nippers, Nickel Plated, | $12.00 |
| No. 21—Tower's Perfect Police Nippers, Nickel Plated Handles, Interlock, | $12.00 |

Half Dozen in a Box.

# Leg Irons.



| | Per Pair |
|---|---|
| No. 16—Tower's Leg Irons, Adjustable, Double Locking, Polished, | $6 00 |
| No. 18—Tower's Leg Irons, Adjustable, Double Locking, Nickel Plated, | 7.00 |

The Double Lock is not a mere name, but in fact two secure Tumbler Locks, one self locking, the second locked with the key. The same Key unlocking both when double-locked, by turning twice around in the same direction

One Pair in a Box.

# Decoy Ducks.

**Solid White Cedar, Flat Bottom.**

Mallards, Canvas Backs, Red Heads and Blue Bills, Assorted Male and Female

| | Per Dozen. |
|---|---|
| **No. 1**—Smooth Finish and Painted, Glass Eyes, | $6.50 |
| **No. 2**—Smooth Finish and Painted, Tack Eyes, | 5.00 |
| **No. 3**—Nicely Painted in Natural Colors, | 4.00 |

# Duck and Goose Calls.

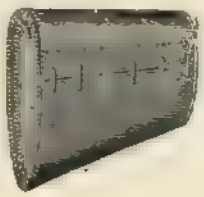
| | Per Dozen. |
|---|---|
| **No. 760**—Duck Calls, Cocobolo, Nickel Plated Tips, | $5.00 |

| | Per Dozen. |
|---|---|
| **No. 82** Universal Duck Calls | $5.00 |

| | Per Dozen. |
|---|---|
| **No. 80**—Fuller's Goose Calls, Cocobolo, Nickel Plated Case, | $14.50 |

# Recoil Pads.

| | Each. |
|---|---|
| **No. 2** Black Rubber, Well Padded, Very Elastic, will Fit any Gun, | $0.60 |
| **No. 3**—Red Rubber, Three Sizes, Small, Medium, and Large, | 1.25 |

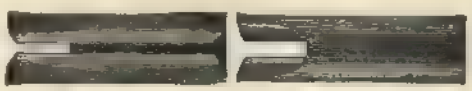


| | Each. |
|---|---|
| **No. 1**—Russet Leather, to Lace at Side, | $0.75 |

# Cheek Pads.

| | Each. |
|---|---|
| **No. 1**—Rowley's, Leather, to Lace, Raises Comb ¼ in., | $2.50 |
| **No. 2**—Rowley's, Leather, to Lace, Raises Comb ¼ in., | 2.50 |
| **No. 3**—Rowley's, Leather, to Lace, Raises Comb ⅜ in., | 2.50 |

# Hand Protectors.



| | Each. |
|---|---|
| **No. 10** Heike's, for 10 Gauge Guns, | $1.00 |
| **No. 12** Heike's, for 12 Gauge Guns, | 1.00 |
| **No. 16** Heike's, for 16 Gauge Guns, | 1.00 |

The Heike Protector for shot guns is to protect hand from heated barrels. It is made of Spring Steel, Leather Covered

# Hanging Lamps.

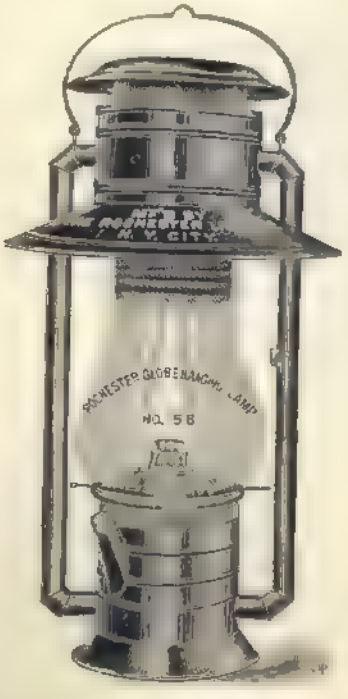
No. 3 Globe, Tubular, Painted Green No 3, 1½ in Burner, No. 3 Globe, Automatic Extinguisher, $6 00

Each.

No. 03 Crystal, Tubular, Painted Green, No 3, 1½ in. Burner, No. 3 Globe, Glass Fount, Automatic Extinguisher, . $6.50

One in a Box

## Hanging Lamps.




Each

No. 158 Rochester, Tubular Painted Green No 2 Circular Burner, No. 3 Globe, . . $7.50

One in a Box

## Gasoline Torches.

Each.

No. 45 – Gasoline Torches, Japanned, for Out Door Use, . . . . . $2.00

# Square Lamps.

| | Each |
|---|---|
| **No. 2**—Tubular, Japanned, No. 3, 1½ in. Burner, 8 in Silvered Glass Reflector. | $6 50 |
| **No. 3**—Tubular, Japanned, No. 3, 1½ in. Burner, 12 in. Silvered Glass Reflector, | $8.50 |

One in a Case.

# Station Lamps.

**Triangular.**

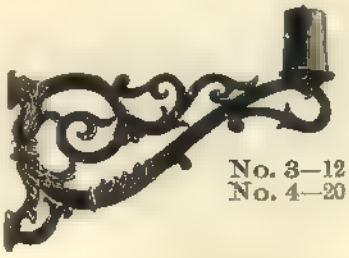
| | Each. |
|---|---|
| **No. 2**—Climax, Japanned. No 2, 1 in Burner. No 2 Chimney, 8 in Silvered Glass Reflector. | $2.90 |
| **No. 3** Climax, Japanned No. 2 1 in Burner. No. 2 Chimney. 10 in Silvered Glass Reflector, | 3.30 |

**Square.**

| | Each. |
|---|---|
| **No. 2**—Climax. Japanned. No 2, 1 in Burner, No. 2 Chimney. 8 in Silvered Glass Reflector. | $2.90 |
| **No. 3**—Climax, Japanned, No. 2. 1 in Burner. No 2 Chimney. 10 in Silvered Glass Reflector. | 3.30 |

One in a Case

# Lamp Brackets.

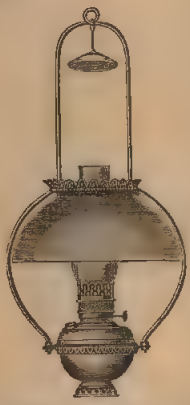


| | Each. |
|---|---|
| **No. 3**—12 in., Cast Iron, Japanned, for Street Lamps. | $1.00 |
| **No. 4**—20 in., Cast Iron, Japanned, for Street Lamps. | 1.00 |

# Pendant Lamps.

Code Koelalf — Each

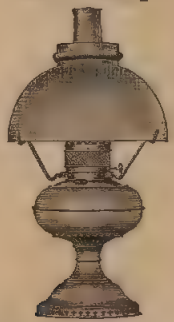
**No. 27401**—Length 31 In., Brass Finish Pendant and Fount, 15 In. Tin Shade, No. 2 Burner, with No. 2 Rochester Chimney, . . . . . $3.00
Weight 17 lbs. Each.



Code Koeldeg — Each

**No. 27400**—Length 31 In., Brass Pendant and Fount, Polished, with 14 In. Porcelain Shade, No. 2 Burner, with No. 2 Rochester Chimney, . . . $4.00
Weight 17 lbs. Each.

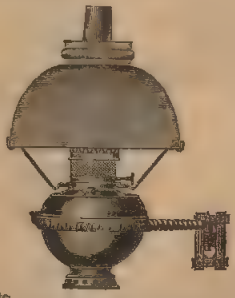
## Table Lamps.



Code Koeleder — Each

**Rayo,** Brass, Nickel Plated Fount, Height 12 In. to Top of Burner, with 10 In. Porcelain Shade, No. 2 Burner, with No. 2 Rochester Chimney, . . . $2.75
Weight 16 lbs. Each.

## Bracket Lamps.

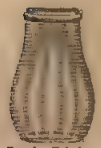


Code Koelkete — Each

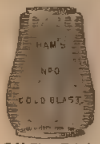
**No. 26096**—Polished Brass Finish Fount, Brass Finish Bracket, Projects 7½ In. to Center of Burner with Safety Catch for Securing Fount in Ring, 10 In. Porcelain Shade. No. 2 Burner, with Rochester Chimney, . . . . $3.00
Weight 16 lbs. Each.

Weights given are Lamps packed for shipment, net weights are about ⅓ of given weights.

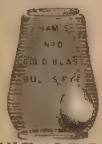
# Lantern Globes.

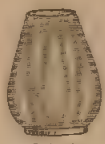

Regular Tubular.

Tubular, Bull's Eye.



Cold Blast Tubular.


Cold Blast, Bull's Eye.


Railroad.

Conductor's.

### Regular Tubular.

| | Code | Per Dozen |
|---|---|---|
| No. 0 —Plain, | Koelktip | $1.25 |
| No. 0R—Ruby, | Koelpan | 5.00 |
| No. 0G—Green, | Koelvat | 5.00 |

Five Dozen in a Barrel.

### Tubular, Bull's Eye.

| | Code | Per Dozen |
|---|---|---|
| No. 0BE—Plain, | Koelzell | $2.50 |

Five Dozen in a Barrel.

### Cold Blast, Tubular.

| | Code | Per Dozen |
|---|---|---|
| No. 2 Plain, | Koemet | $2.00 |

Five Dozen in a Case.

### Cold Blast, Bull's Eye.

| | Code | Per Dozen |
|---|---|---|
| No. 2BE—Plain, | Koemasr | $4.00 |

Five Dozen in a Case.

### Railroad.

| | Code | Per Dozen |
|---|---|---|
| No. 39—Plain, | Koenig | $2.00 |
| No. 39—Ruby, | Koenigen | 7.00 |

Five Dozen in a Case.

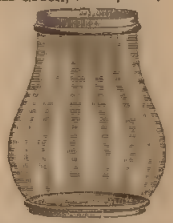
### Conductors'.

| | Code | Per Dozen |
|---|---|---|
| No. 3 W White, | Koepels | $10.00 |
| No. 3½ G—Half Green, | Koepflein | 35.00 |

Gem

Racket

| | Code | Per Dozen |
|---|---|---|
| No. 00 –Gem, Cold Blast, Plain, | Koemagen | $1.50 |
| Racket, Plain, | Koemelk | $2.00 |



| | Code | Per Dozen |
|---|---|---|
| No. 4—Plain, for No. 40 Search Light, | Koepok | $7.50 |
| No. 9 Plain, for No. 9 Street Lamp, | Koepflil | 10.00 |

Average Weight 17 lbs. Per Dozen; 75 lbs. Per Barrel; 70 lbs. Per Case.

Sun, Crimp Top.

# Lamp Chimneys.

### Sun, Crimp Top.

| Nos., | 1 | 2 |
|---|---|---|
| Code, | Koerhuis | Koernein |
| Weight Per Case, lbs., | 47 | 61 |
| Per Dozen, | $1.00 | 1.50 |

### Pearl Top.

| Nos., | 1 | 2 |
|---|---|---|
| Code, | Koernelat | Koernen |
| Weight Per Case, lbs., | 47 | 61 |
| Per Dozen, | $1.50 | 2.00 |

Six Dozen in a Case.

### Dual.

| Nos., | 1 or A | 2 or B |
|---|---|---|
| Code, | Koernigar | Koernsing |
| Height, Inches, | 4 | 6 |
| Weight, Per Case, lbs., | 34 | 40 |
| Per Dozen, | $1.75 | 2.25 |

Packed Six Dozen in a Case.

Dual.

# Railroad Track Levels.

Code Erdoel — Each

No. 100 Wood Bar, Iron Shod, 6½ Ft. Long Over All, Spirit Glass in Side, . . . . . $5.00
Weight 10 lbs. Each.

## Rail Tongs.

Code Erdrag — Per Pair

Rail Tongs, Solid Steel, Oil Finish, . . $5.00
Weight 18 lbs. Per Pair.

## Rail Benders or Jim Crows.

Code Erdstock — Each

No. 1—For Rails Up to 25 lbs., Span 19 in., Diameter of Screw 2 In., . . $26.00
Weight 67 lbs. Each.

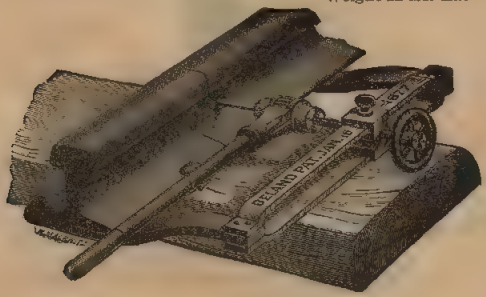
Code Erstoss

No. 2 For Rails Up to 50 lbs., Span 22 In., Diameter of Screw 2¼ In., . . 36.00
Weight 98 lbs. Each.

## Track Gauges.

Code Erdstrom — Each

Huntington Track Gauge, . . . . . $4.00
Weight 12 lbs. Each.




## Track Drills.

Code Erdvogel — Each

Beland's, Wrought Iron Frame, Cast Steel and Malleable Iron Ratchet, Complete with Two Drill Points, . . . . $12.00
Weight 27 lbs. Each.

Code Erdwachs

Extra Drill Points, . . . . .75

SCHWABACHER HARDWARE CO.

# Railroad Track Jacks.

**Lifting and Carrying Jack.**

Code Erfelijk — Each

No. 2 Diameter of Main Screw 2⅜ In., Height 21 In., with Traverse of 12 In.; Length of Base 25 In., Weight 90 lbs. Each. $55.00

Wrought Iron Legs, Steel Base, Wrought Iron Screw, Square Threads, Brass Top and Bottom Nuts, Double Ratchet to Elevating Screw, Ratchet Lever Fitting Both Ends of Traverse Screw.

**Jenne Track Jacks.**

Code Erfgoed — Each

No. 1—Height 31 In., Lift 12 In., Capacity 5 Tons, with Lever Handle, . . $30.00
Weight 62 lbs. Each.

Code Erfgoed — Each

No. 2 Height 35 In., Lift 15 in., Capacity 10 Tons, with Lever Handle, . . $36.00
Weight 95 lbs. Each.

For Heavy Ballasting, Surfacing and General Track Work. Frame and Lever Socket Made of Best Malleable Iron. Round Lifting Bar—No. 1, 1⅛ In.; No. 2, 1¼ In. Diameter, Steel Pivots, Bronze Boxes, Wrought Iron Rings, Hanger and Lifting Bar.

# Husking Gloves.

Per Dozen Pairs

**No. 4**—Brown Calf Skin, Shielded, Steel Pin, $18.00
**No. 5** Yellow Calf Skin, Shielded Steel Pin 13.00

Per Dozen Pairs

**No. 6** Muleskin, Waterproof, Shielded, Steel Pin $8.50
**No. 9** Muleskin, Extra Quality Shielded, Steel Pin, . . . . . 8.00
**No. 15**—Yellow Acme Stock, Shielded, Steel Pin, 8.50

Per Dozen Pairs

**No. 18** Muleskin, Shielded, Steel Pin, Hook on Thumb, . . . . . $9.00

Per Dozen Pairs

**No. 301**—Muleskin Front, Canvas Back, . . $4.50
**No. 164** Extra Heavy Canvas, Nap Inside, . . 2.00
**No. 174**—Heavy Grey Canvas, . . . . 1.90

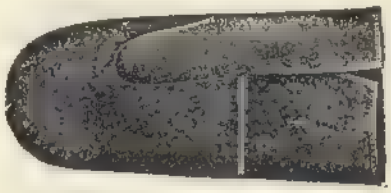
# Husking Mittens.

Per Dozen Pairs

**No. 35**—8 oz. Duck, Muleskin Face, Shielded Thumb, Steel Pin, . . . . . $4.25
**No. 36**—8 oz. Flannel, Muleskin Face, Shielded Thumb, Steel Pin, . . . . . 4.50

Per Dozen Pairs

**No. 26** Canton Flannel, Muleskin Face, $3.75
**No. 21** Duck, Muleskin Face, . 2.40



Per Dozen Pairs

**No. 75**—Canton Flannel, Medium, Single, . . $1.00
**No. 76** 10 oz. Canton Flannel, Single, . 1.50
**No. 70**—10 oz. Canton Flannel, Double, . . 1.70
**No. 10**—10 oz. Canton Flannel, Double, Extra Quality, 2.00

Per Dozen Pairs

**No. 80**—Single Duck, Heavy, . . $1.00
**No. 81**—8 oz. Duck, Tipped Palm and Thumb. 1.20

# Wrist Supporters.

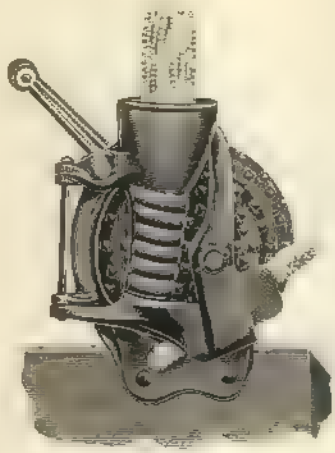
Per Dozen Pairs

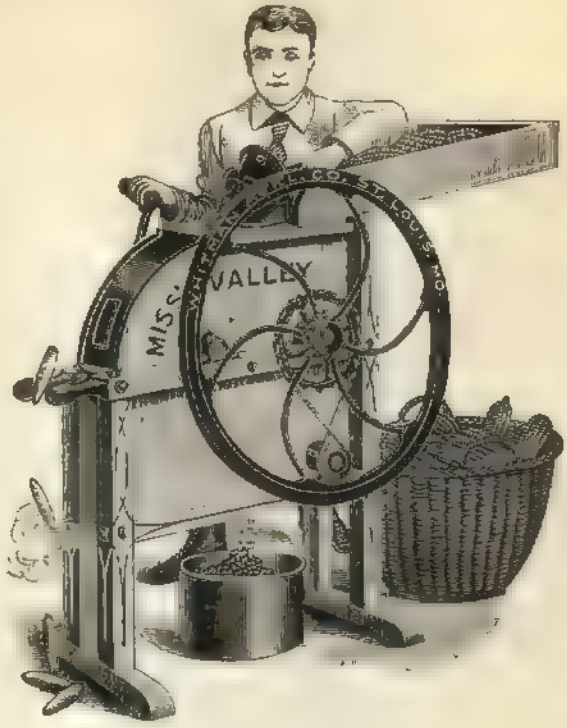
**No. 2X**—Calf, 3 in. Wide, with Lace $2.30

Per Single Dozen

**No. 21X**—Calf Skin, Two Strap, Extra Quality, $1.30
**No. 24X**—Calf Skin, Two Strap, . . . 1.00

# Corn Shellers.

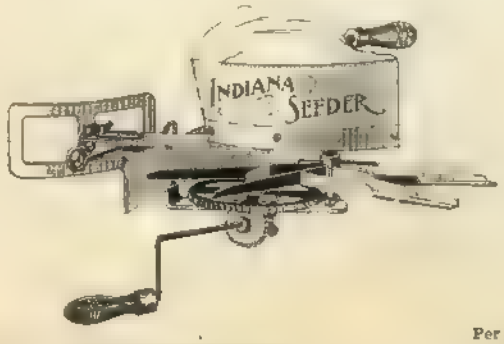





| | Per Dozen |
|---|---|
| **No. 15**—Corn King Hand Shellers Japanned Iron, | $15 00 |

| | Each. |
|---|---|
| **No. 20**—Mississippi Valley Improved Shellers, One Hole, without Feed Table or Fan. | $7.00 |
| Fans for No. 20 Shellers. | .75 |
| Feed Tables for No. 20 Shellers. | .40 |
| Cranks, for No. 20 Shellers, | 1 00 |
| Balance Wheels, for No. 20 Shellers, | 3 00 |

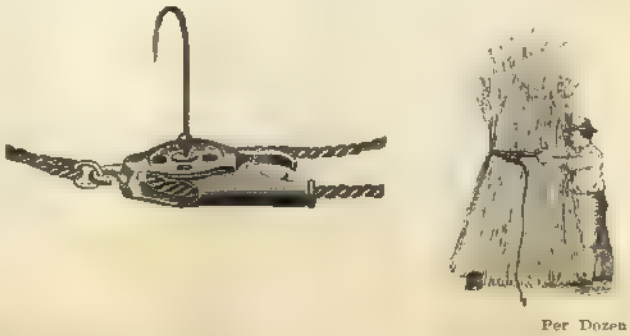
## Grain Seeders.




| | Per Dozen |
|---|---|
| Indiana, Broadcast Hand Seeders, | $18 00 |

Solid Malleable Iron Frame, Cast Iron Bevel Wheels, Sheet Steel Hopper, Heavy Tin Fan, Steel Balance. Holds one half bushel of seed. It will sow Wheat, Rye, Oats, Barley, Rice, Flax, Millet, Turnip Seed, Clover and all kinds of Grasses in fact all Seed sown broadcast.

## Corn Shock Compressors.



| | Per Dozen |
|---|---|
| **No. 4** Star, Japanned Automatic Clamp with 13 ft ⅞ in. Sisal Rope, | $10.00 |

With this tool One man can tie as many shocks of corn as Two can without it. After the shock is compressed the tool grips the rope and holds it while the binding twine is tied. The Compressor can then be easily removed ready to compress the next shock.

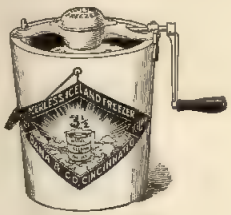
H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

# ICE CREAM FREEZERS.

## "FREZO" FREEZERS.

| Quarts | 1 | 2 | 3 | 4 | 6 |
|---|---|---|---|---|---|
| Each | 2 70 | 3.20 | 3.70 | 4.20 | 5.50 |

## "PEERLESS ICELAND" FREEZERS.



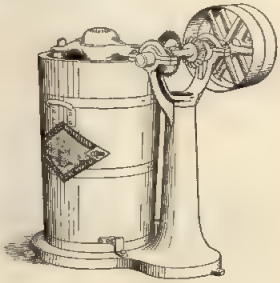

| Quarts.. | 1 | 2 | 3 | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 25 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Each.... | 3.00 | 3.60 | 4.10 | 4.90 | 6.30 | 7.90 | 10.60 | 12.70 | 18 50 | 21.70 | 28.10 |

**Toy Peerless Freezers,** 1 pint..... ..... .....each 2.80

## "PEERLESS" FREEZERS WITH FLY WHEELS.

| Quarts ..... | 16 | 20 | 25 |
|---|---|---|---|
| Complete with Fly Wheel, each.... | 23.90 | 27.10 | 35.30 |

## FREEZERS WITH POWER ATTACHMENT.



25 Quarts ..... .....each 100.00

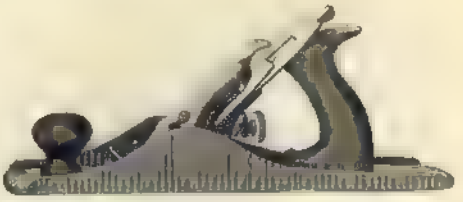
Not stocked; imported to order.

## WEIGHTS OF FREEZERS.

| Quarts | 1 | 2 | 3 | 4 | 6 | 8 | 10 | 12 | 16 | 20 | 25 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Each | 7 | 10 | 12 | 14 | 17 | 25 | 28 | 30 | 56 | 62 | 70 lbs. |
| Fly Wheels | | | | | | 12 | 12 | 12 | 25 | 25 | 40 lbs. |
| Toy | 40 lbs. to the dozen. | | | | | | | | | | |

**"ELLIOT'S" hand-forged** Cheese Knives and Butter Spades are the very best made

# Adjustable Iron Planes.



**Bailey's.**

| | | Each |
|---|---|---|
| No. 1 | —Smooth, 5½ in Long, 1¾ in. Cutter, | $1.50 |
| No. 2 | —Smooth, 7 in. Long, 1⅝ in. Cutter, | 1.85 |
| No. 3 | —Smooth, 8 in Long, 1¾ in Cutter, | 2 00 |
| No. 4 | —Smooth, 9 in Long, 2 in Cutter, | 2 20 |
| No. 4½ | —Smooth, 10 in. Long, 2⅜ in. Cutter, | 2.50 |
| No. 5 | —Jack, 14 in. Long, 2 in. Cutter, | $2.50 |
| No. 5½ | —Jack, 15 in. Long, 2¼ in. Cutter, | 2 85 |
| No. 6 | —Fore, 18 in Long, 2⅜ in Cutter, | 3.20 |
| No. 7 | —Jointer, 22 in Long, 2⅜ in Cutter, | 3 65 |
| No. 8 | —Jointer, 24 in. Long, 2⅝ in. Cutter, | 4.35 |

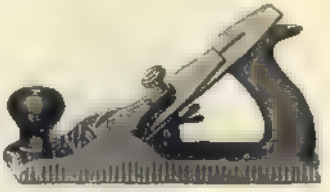
**Bailey's.**

**Corrugated Bottom.**

| | | Each |
|---|---|---|
| No. 2 C | Smooth, 7 in. Long, 1⅝ in Cutter, | $1 85 |
| No. 3 C | —Smooth, 8 in. Long, 1¾ in Cutter, | 2 00 |
| No. 4 C | —Smooth, 9 in Long, 2 in Cutter, | 2 20 |
| No. 4½C | —Smooth, 10 in Long, 2⅜ in Cutter, | 2 50 |
| No. 5 C | Jack, 14 in Long, 2 in. Cutter, | $2.50 |
| No. 5½C | —Jack, 15 in Long, 2¼ in Cutter, | 2 85 |
| No. 6 C | Fore, 18 in Long, 2⅜ in. Cutter, | 3.20 |
| No. 7 C | —Jointer, 22 in. Long, 2⅜ in. Cutter, | 3 65 |
| No. 8 C | —Jointer, 24 in. Long, 2⅝ in. Cutter, | 4.35 |

**Stanley's, Carriage Makers' Rabbet.**

| | | Each |
|---|---|---|
| No. 10½ | — 9 in. Long, 2⅛ in. Cutter, | $2 50 |
| No. 10 | —13 in. Long, 2⅛ in. Cutter, | 3 00 |



**Stanley's, Steel, Smooth and Jack.**

| | | Each |
|---|---|---|
| No. 104 | —Smooth, 9 in. Long, 2⅛ in. Cutter, | $1 85 |
| No. 105 | —Jack, 14 in. Long, 2⅛ in Cutter, | 2.35 |

**Victor, Circular.**

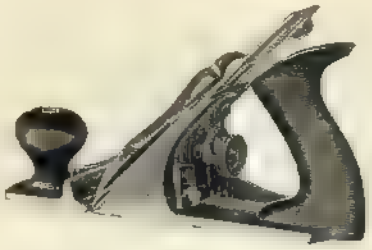
| | | Each |
|---|---|---|
| No. 20 | —Nickel Plated, Adjustable, 1¾ in Cutter, | $3.75 |

**Stanley's, Circular.**

| | | Each |
|---|---|---|
| No. 113 | —Adjustable Circular, 1¾ in. Cutter, | $2 75 |

# Adjustable Iron Planes.

## Stanley's "Bed Rock."



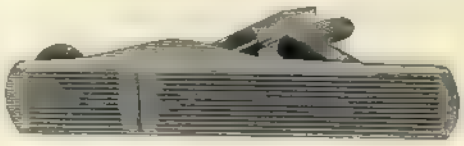
The Real one-piceness and absolute solidity of this Plane is as much a fact as if the parts were all one, and for this reason, that the entire surfaces of the Frog are in contact with the Plane Iron on one hand and the Plane Bottom on the other, and are so perfectly fitted that, from the Plane Iron to the bottom of the Plane, is as one solid piece of metal.

Is easily adjustable at the mouth as indicated in illustration The combination of one piece solidity and quickness of adjustment is unique in the Bed Rock. This feature will at once be appreciated by all mechanics

No delay in adjusting from Hardwood to Pine.

### Smooth Bottom.

| | | Each |
|---|---|---|
| **No. 602** | —Smooth 7 in Long, 1⅝ in Cutter, | $2 15 |
| **No. 603** | —Smooth 8 in. Long 1⅝ in Cutter. | 2.30 |
| **No. 604** | —Smooth, 9 in. Long 2 in Cutter | 2 50 |
| **No. 604½** | Smooth. 10 in Long. 2⅜ in Cutter. | 2 90 |
| **No. 605** | —Jack, 14 in Long, 2 in. Cutter, | $2 90 |
| **No. 605½** | —Jack 15 in. Long, 2¼ in. Cutter, | 3 25 |
| **No. 606** | —Fore 18 in. Long, 2⅜ in. Cutter. | 3.50 |
| **No. 607** | —Jointer 22 in. Long, 2⅜ in Cutter. | 4.20 |
| **No. 608** | Jointer. 24 in Long. 2⅜ in. Cutter. | 5 00 |

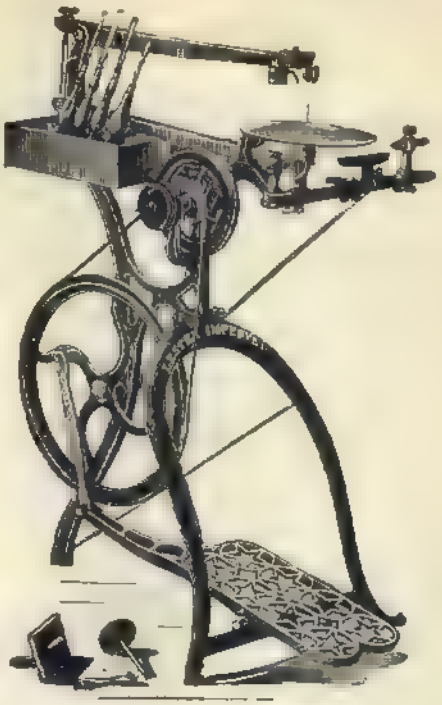


### Corrugated Bottom.

| | | Each |
|---|---|---|
| **No. 602C** | —Smooth, 7 in Long 1⅝ in Cutter. | $2 15 |
| **No. 603C** | —Smooth 8 in Long 1⅝ in Cutter | 2 30 |
| **No. 604C** | —Smooth. 9 in Long 2 in Cutter | 2 50 |
| **No. 604½C** | —Smooth 10 in Long. 2⅜ in Cutter. | 2.90 |
| **No. 605C** | —Jack, 14 in. Long, 2 in Cutter | $2 90 |
| **No. 605½C** | —Jack, 15 in. Long, 2¼ in Cutter. | 3 25 |
| **No. 606C** | —Fore. 18 in. Long, 2⅜ in Cutter | 3 50 |
| **No. 607C** | —Jointer. 22 in. Long, 2⅜ in Cutter. | 4 20 |
| **No. 608C** | —Jointer, 24 in. Long. 2⅜ in Cutter. | 5 00 |

One in a Box.

# Scroll Saws.



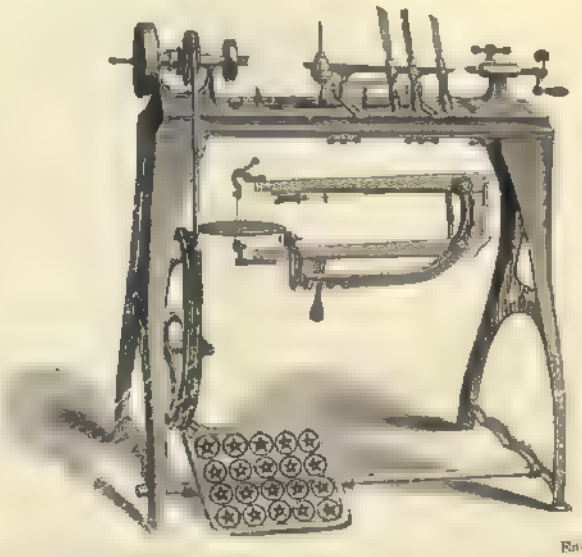
Each.

**No. 3**—Lester's Improved, Japanned, Iron Frame, Nickel Plated Tilting Table, with Lathe, 3 in Circular Saw and Emery Wheel. . . . . $10.00

# Lathes and Scroll Saws.

Each.

**Companion**, with Scroll Saw Attachment Length of Lathe Bed 24 in Swing of Lathe 5 in Distance between Centers 15 in., . . . . $8 50

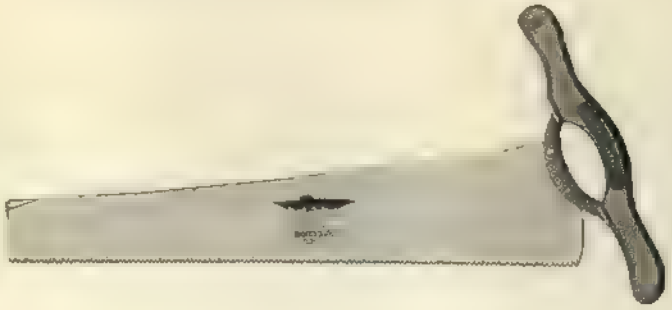


Each

**Goodell's** with Scroll Saw Attachment, Length of Lathe Bed 24 in., Swing of Lathe 5 in Distance between Centers 15½ in.. . . . . $12.00

Each Lathe is supplied with a 4½ in Emery Wheel and other Tools needed for practical work

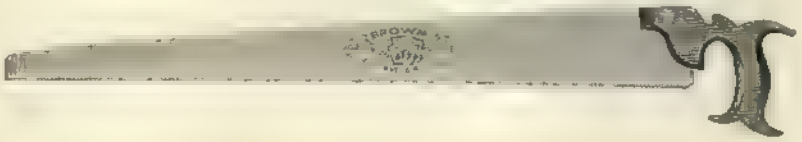
# Handy Hand Saws.



Per Dozen.

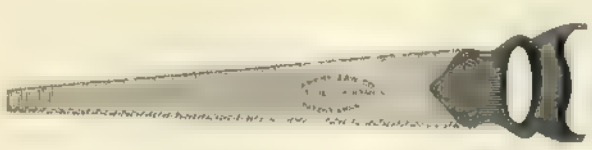
**No. 2**—Wheeler, Madden & Clemson's. Handy Hand Saws. 26 in. Blade. . $9 00

## Pruning Saws.



| | | | |
|---|---|---|---|
| **No. 3**—Brown's, Cast Steel Grained Blade, Beech Handle, . . . . | Inches. | **16** | **18'** |
| | Per Dozen. . | $6.75 | 7.50 |

One-Third Dozen in a Box



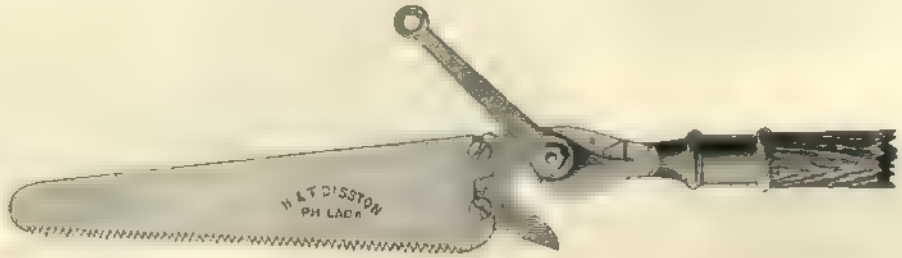
Per Dozen.

**No. 40** Avery's Duplex 18 in Blade Cast Steel Beech Handle, . . . . . $7.75

Per Dozen

**No. 45** Disston's Improved Saw and Knife. Japanned Frame. Cast Steel Blade, . . $11.00

## Pruning Saws and Hooks.




Per Dozen

**No. 50**—Disston's Pruning Saws and Hooks, Cast Steel Blade, . . . . . $18.00

# REVOLVERS.

"LIBERTY," REVOLVERS.

Nickel Plated, Rubber Stock.

GERMAN "BULL-DOG."

Nickel Plated, Rubber Stock.

| RIM FIRE. | Each |
|---|---|
| 22 Calibre, 2½ in Round Barrel.... | 2.70 |

| CENTRAL FIRE. | Each |
|---|---|
| 32 Calibre, 2 in . Round Barrel | 3.10 |
| 38 " 2½ " " | 3.40 |

BOSTON "BULL-DOG."

(Double Action.)

Nickel Plated, Rubber Stock.

| RIM FIRE. | Each |
|---|---|
| 22 Calibre, 2½ inches, Octagon Barrel ..... | 3.90 |

AMERICAN "BULL-DOG."

(Double Action.)

Nickel Plated, Rubber Stock.

| CENTRAL FIRE. | Each |
|---|---|
| 38 Calibre, 2½ in., Octagon Barrel . .. .... ..... | 3.90 |

IVER-JOHNSTON AUTOMATIC CYCLE.

Nickel Plated, Rubber Stock.

| CENTRAL FIRE. | Each |
|---|---|
| 32 Calibre, 2 in Round Barrel. ... ... ..... . .. .. | 8.30 |

**"ELLIOT'S" hand-forged** Table Steels are the very best made.

H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

# Mammoth Banner Lamps.

Each.

**No. 858** Improved Mammoth Banner Lamps, Circular Burner No 3 Embossed Brass Banner Fount, 20 in Corrugated Tin Reflector, No. 3 Banner (or Rochester) Chimney, . . . . . $5.00

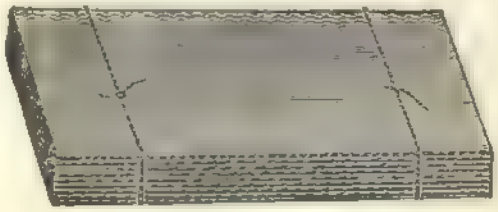
The Wick Raiser is controlled by a Thumb Screw, so that the Wick cannot fall by a sudden jar. The Lock Extension Harp Ring allows the Fount to be removed with one Hand by dropping through the Ring instead of lifting as in other Lamps. This Lamp has extra feeder Wick and Oil Drip Cup on inside Tube, that carries any overflow back to the Wick

One in a Case.

# Alcohol Stoves.

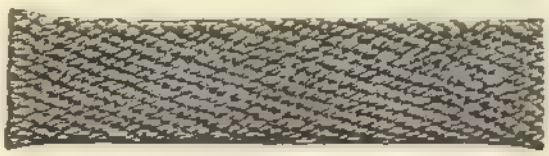
| | Per Dozen. |
|---|---|
| No. 5—Pocket, with 2 in Burner, | $ 3.00 |
| No. 10—Pocket, with 3 in. Burner, | 11.00 |
| No. 80 Philadome, with Tin Kettle, | $14.00 |

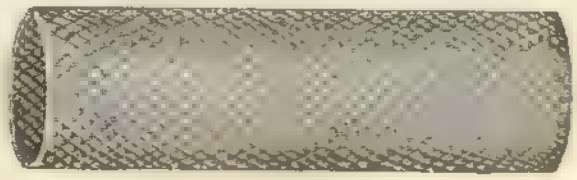
# Oil and Lamp Stove Wicks.



| | Per Dozen | | Per Dozen. |
|---|---|---|---|
| No. 5 —3½ in. Woven Cotton, | $0 35 | No. 10—3¾ in. Red Felt, | $0.80 |
| No. 6 —3¾ in. Woven Cotton, | .40 | No. 11—4 in Red Felt, | .85 |
| No. 7 —4 in. Woven Cotton, | .45 | No. 12—4½ in. Red Felt, | 1.00 |
| No. 7½—4½ in. Woven Cotton, | .50 | No. 13—5 in. Red Felt. | 1.10 |
| No. 8 —5 in. Woven Cotton, | .55 | | |

# Lamp Wicks.





**Lamp and Lantern.**

| | Per Gross |
|---|---|
| No. 0— ⅛ in. Woven Cotton, | $0 60 |
| No. 1— ⅜ in. Woven Cotton, | .75 |
| No. 2—1 in. Woven Cotton, | 1.10 |
| No. 3—1½ in. Woven Cotton, | 1.75 |

**Circular.**

| | Per Gross. |
|---|---|
| No. 2 Rochester, Woven Cotton, for Mammoth Banner or Rochester Lamps, with No. 2 Burner, | $5.00 |
| No. 3—Banner, Woven Cotton, for Mammoth Banner or Rochester Lamps, with No. 3 Burner, | 9.50 |

# Lemon Squeezers.

Code Lavons — Per Dozen

**No. 1**—Maple, Wood Ball, 2 In. Cup, . . . . . $2.50

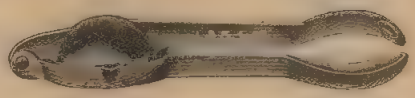
Weight 9½ lbs. Per Dozen.

Code Lavours — Per Dozen

**No. 11** Standard, Malleable Iron, Tinned, 7½ In. Long, . . . . . $2.50

Weight 7 lbs. Per Dozen.

One Dozen in a Box.



Code Lavure — Per Dozen

**No. 4** Boss, Malleable Iron, Tinned, 8½ In. Long, . . . . . $3.00

Weight 10 lbs. Per Dozen.

Half Dozen in a Box.

Code Lawaal — Per Dozen

**No. 18** American Queen, 10½ In. Long Combined Juice Extractor with Lemon Squeezer, Tinned Cup, Japanned Frame, . . . . . $5.50

Weight 18 lbs. Per Dozen.

Half Dozen in a Box.

Code Laxanz — Per Dozen

**No. 1**—Manny, Glass, Orange or Lemon Juice Extractor, for Use Over Tumbler, $1.50

Weight 5 lbs. Per Dozen.

Half Dozen in a Box.

Code Laxator — Per Dozen

**No. 3** Manny, Glass, Orange or Lemon Juice Extractor, with Bowl and Handle, $2.00

Weight 10 lbs. Per Dozen.

Third Dozen in a Box

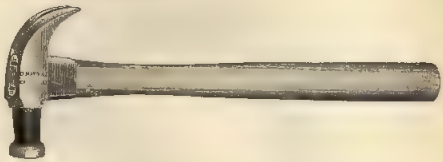
SCHWABACHER HARDWARE CO.

# MAYDOLE'S NAIL HAMMERS.

**Plain Face,** Hickory Handle.

| No. | 1½ | 1 | 0 | 23 Brad |
|---|---|---|---|---|
| Weight, lbs. | 1 | 1 lb. 4 oz. | 1 lb. 10 oz. | 7 oz. |
| Per dozen | 14 00 | 15.35 | 20.15 | 9.65 |

Half dozen in a box.

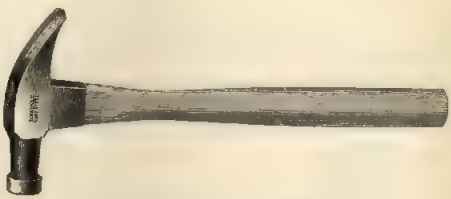


**Bell Face,** Hickory Handle.

| No. | 13 | 12 | 11½ | 11 |
|---|---|---|---|---|
| Weight, lbs. | 7 oz. | 12 oz. | 1 | 1 lb. 3 oz. |
| Per dozen | 11.85 | 13.15 | 14.00 | 15.35 |

**Adze Eye, Straight Claw.**

| Nos. | 701 | 701½ |
|---|---|---|
| Weight | 1 lb. 4 oz. | 1 lb. |
| Per dozen | 15.35 | 14 00 |

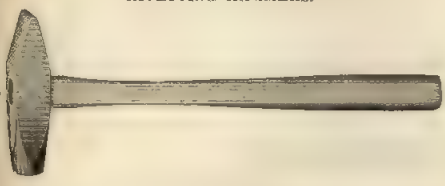


**Adze Eye, Straight Claw, Bell Face.**

| Nos. | 711 | 711½ |
|---|---|---|
| Weight | 1 lb. 3 oz. | 1 lb. |
| Per dozen | 15.35 | 14.00 |

Half dozen in a box.

## RIVETTING HAMMERS.

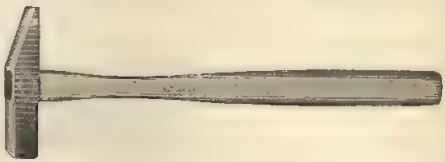


**Cast Steel, Hickory Handles.**

| No. | 8 | 7 | 6 | 5 | 4 | 3 | 2 |
|---|---|---|---|---|---|---|---|
| Weight | 4 oz. | 7 oz. | 9 oz. | 12 oz. | 15 oz. | 1 lb. 2 oz. | 1 lb. 6 oz. |
| Per dozen | 6.30 | 6.60 | 6.85 | 7.15 | 7.45 | 8.00 | 8.60 |

Half dozen in a box

## TINNERS' SETTING HAMMERS.



**No. 17,** Cast Steel, Hickory Handles.

| Weight, lbs | ½ | ¾ | 1 |
|---|---|---|---|
| Per dozen | 8.00 | 8.80 | 9.00 |

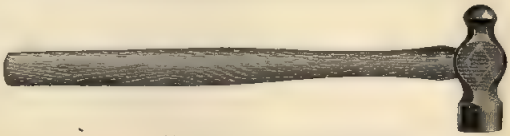
## ENGINEERS' HAMMERS.

**No. 22,** Ball Pein, No Handle.

| Weight, lbs. | ½ | ¾ | 1 | 1½ | 1½ | and larger |
|---|---|---|---|---|---|---|
| Per lb. | 1.04 | .60 | .52 | .42 | .36 | |

Half dozen in a box.

## MACHINISTS' HANDLED BALL PEIN HAMMERS.



**No. 11,** Solid Cast, Hickory Handles.

| Weight, lbs. | ¾ | 1 | 1½ | 1½ | 2 |
|---|---|---|---|---|---|
| Per dozen | 9.30 | 10.70 | 11.55 | 12.40 | 14.15 |

Prices for full boxes.

# HAMMERS, CHISELS, ETC.

## Shoe Hammers.

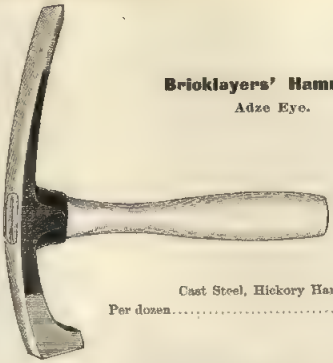
Hickory Handle.

| No. | | Per dozen |
|---|---|---|
| 4, | American Japanned | 1.20 |
| 572½, | 1, Wynn's Bright | 5.40 |
| 572, | 2, " | 6.00 |

Half dozen in package.

## Bricklayers' Hammers.

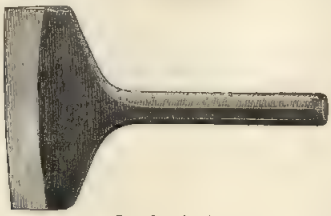
Adze Eye.



Cast Steel, Hickory Handle.

Per dozen ..... 21.00

## Brick Chisels.



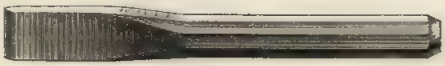
Best Cast Steel.

| | Per dozen |
|---|---|
| Width of Face, 4 to 4½ in | 14.20 |

## Ventilation Bricks.

| | Single Brick | Double Brick |
|---|---|---|
| Sizes | 3 x 9 in. | 6 x 9 in. |
| Without Slide | 3.10 | 5.00 per doz. |
| With " | 4.10 | 6.50 " |

## Cold Chisels.



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sizes | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | inch |
| "Acme" | .32 | .32 | .32 | .32 | .32 | .32 | per pound |
| Best | .46 | .46 | .46 | .46 | .46 | .46 | " |

Half dozen in box.

## Crow Bars.

Chisel Point, 4 to 5½ ft. long.

| | | | | | | |
|---|---|---|---|---|---|---|
| Weight | 10 | 12 | 14 | 16 | 18 | 20 lbs. |
| Per lb | | | | .08½ | | |

Wedge Point, 4 to 5½ ft. long.

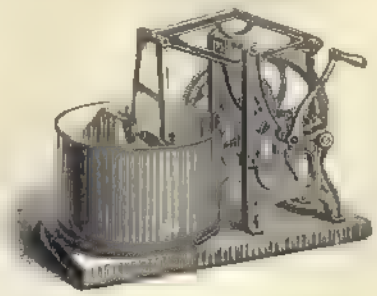
| | | | | | | |
|---|---|---|---|---|---|---|
| Weight | 10 | 12 | 14 | 16 | 18 | 20 lbs. |
| Per lb. | | | | .08½ | | |

CROW BARS FOR POST HOLES.

Wedge Point, 6½ to 7 ft. long. per lb. .08½

H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

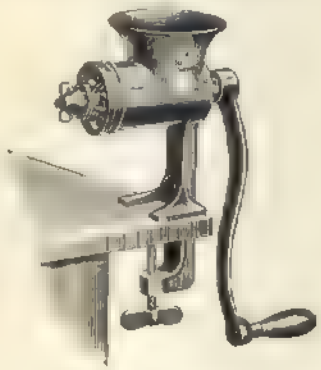
# Meat Choppers.



**American.**

| | Each |
|---|---|
| **No. 1**—Family Size, 8 in. Cylinder. Chops 1 Lb. per Minute, Weight 14 Lbs., | $ 5 00 |
| **No. 2**—Family Size, 10 in. Cylinder. Chops 2 Lbs. per Minute, Weight 21 Lbs., | 7.00 |
| **No. 3**—Hotel Size, 12 in. Cylinder, Chops 3 Lbs. per Minute, Weight 37 Lbs., | 10.00 |
| **No. A** Hotel Size, 12 in. Cylinder, Chops 3 Lbs. per Minute, Weight 43 Lbs., | 12 00 |
| **No. 4**—Butchers' Size, 15 in. Cylinder, Chops 50 to 60 Lbs. per Hour, Weight 120 Lbs., | 25 00 |

## Food Choppers.



**Universal.**

| | Per Doz. |
|---|---|
| **No. 1**—Family Size, Tinned, Hopper 3x2½ in., Barrel 2 in., Chops 2 Lbs. per Minute, | $24.00 |
| **No. 2**—Medium Size, Tinned, Hopper 4x3 in., Barrel 2 in., Chops 2½ Lbs. per Minute, | 27 00 |
| **No. 3**—Large Size, Tinned, Hopper 5x4 in., Barrel 2¾ in., Chops 3 Lbs. per Minute, | 36 00 |

Half Dozen in a Case.

## Stuffer Attachments.

| | Per Dozen |
|---|---|
| Stuffer Attachments, Adjustable to Nos. 2 and 3 Universal Food Choppers, | $4 50 |

## Extra Parts for Universal Food Choppers.

**For Nos. 1 and 2.**

| | Each |
|---|---|
| Reversible Cutter, | $0 .30 |
| Pulverizer, | 20 |
| Crank, | 25 |
| Clamp Screw, | 13 |
| Thumb Nut, | 10 |
| Handle Screw and Washer, | 02 |

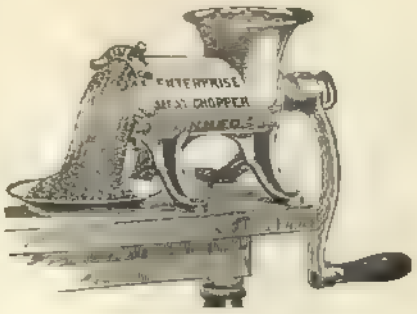
**For No. 3.**

| | Each |
|---|---|
| Coarse Cutters, | $0 25 |
| Medium Cutters, | 25 |
| Fine Cutters, | 25 |
| Pulverizer, | 25 |
| Crank, | .50 |
| Clamp Screw, | 20 |
| Thumb Nut, | 10 |
| Handle Screw and Washer, | .02 |

When Ordering always State Number of Chopper for which Extra Part is Wanted.

# Meat Choppers.

Nos. 5 and 10.



Nos. 12 to 32

**Enterprise.**

| | | Each. |
|---|---|---|
| **No. 5**—Tinned, Clamps to Table, Chops 1 Lb. Per Minute, Weight 4½ Lbs., | | $2 00 |
| **No. 10**—Tinned, Clamps to Table, Chops 3 Lbs. Per Minute, Weight 8 Lbs., | | 3 00 |
| **No. 12**—Tinned, Screws to Table, Chops 3 Lbs. Per Minute, Weight 7 Lbs., | | 2 50 |
| **No. 22**—Tinned, Screws to Table, Chops 4 Lbs. Per Minute, Weight 12 Lbs., | | 4 00 |
| **No. 32**—Tinned, Screws to Table, Chops 5 Lbs. Per Minute, Weight 18 Lbs., | | 6 00 |

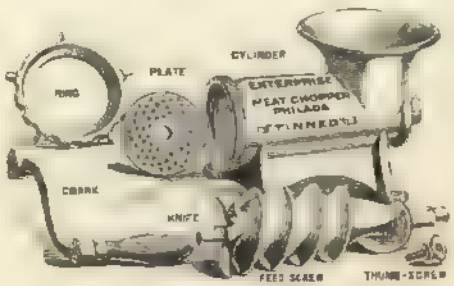
Six in a Box

## Stuffer Attachments.

**Enterprise, Spun Brass, Nickel Plated.**

| For Choppers, Nos. | 5 | 10 | 12 | 22 | 32 |
|---|---|---|---|---|---|
| Per Dozen, | $4.00 | 4.50 | 4.50 | 6.00 | 7 25 |

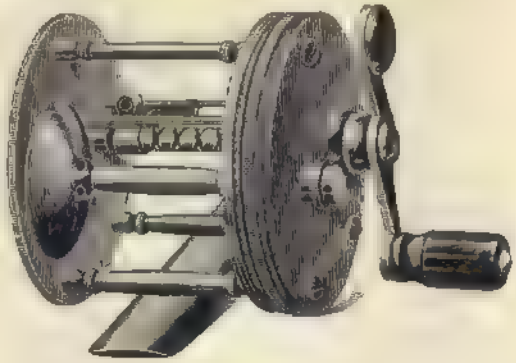
## Extra Parts for Enterprise Meat Choppers.




| | Nos. | 5 | 10 | 12 | 22 | 32 |
|---|---|---|---|---|---|---|
| For Choppers. | | | | | | |
| Knives. | Each, | $0.25 | .30 | .30 | 50 | .75 |
| Perforated Plates. | Each, | .30 | .50 | 50 | .75 | 1 00 |
| Rings, | Each, | 25 | .40 | .40 | 75 | 1 00 |
| Thumb Screws. | Each | 10 | .15 | 15 | 15 | 20 |
| Cranks. | Each, | .25 | .30 | 30 | .50 | .75 |

When Ordering Always State Number of Chopper for which Extra Part is Wanted.

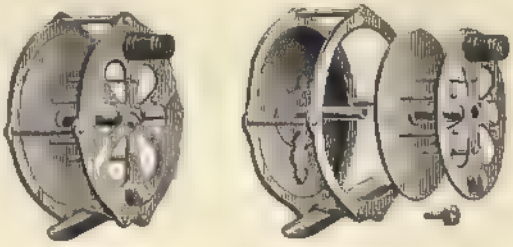
# Fishing Reels.



**Milwaukee Casting.**

Quadruple Multiplying, Nickel Plated Brass, Screwed, Automatic Spooling Device, Balance Handle. Back Sliding Click.

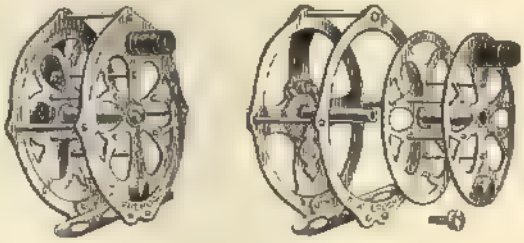
| Nos. | 3 | 4 |
|---|---|---|
| Capacity, Yards, | 60 | 80 |
| Each, | $15 00 | 16 00 |



**Allright.**

Single Action, Nickel Plated Brass, Riveted, Removable Spool, Back Sliding Steel Click.

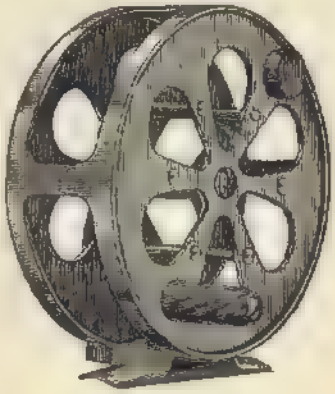
| | Per Dozen |
|---|---|
| **No. 110**—40 Yards, for Trout, | $18.00 |
| **No. 120**—80 Yards, for Bass, | 24 00 |



**Featherlight.**

Single Action, Brass, Riveted, Removable Spool, Back Sliding Steel Click and Steel Spindle.

| | Per Dozen. |
|---|---|
| **No. 270**—60 Yards, Nickel Plated, Trout or Bass, | $24.00 |
| **No. 270B**—60 Yards, Black Finish, Trout or Bass, | 24.00 |
| **No. 280**—80 Yards, Nickel Plated, Bass, | 24.00 |

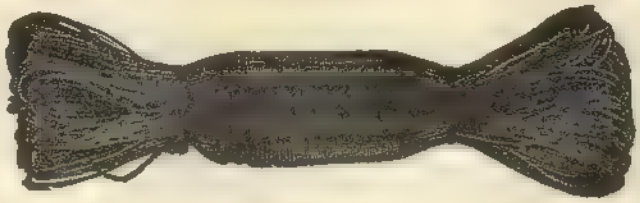


**Expert.**

Single Action, Nickel Plated Brass, Riveted, Patent Guard, Patent Compensating Pawl, Improved Back Sliding Click

| | Per Dozen. |
|---|---|
| **No. 17**—100 Yards, for Bass, | $30.00 |
| **No. 19**—40 Yards, for Trout or Bass, | 24 00 |

# Fish Lines.



### Twisted Drab Cotton.

15 Feet Hanks, 12 Connected.

| | Per Gross. |
|---|---|
| No. 2 Size 2 | $1 40 |
| No. 3—Size 3 | 1 50 |
| No. 4—Size 4 | 1.65 |
| No. 5—Size 5 | 1 80 |
| No. 6—Size 6 | 2 00 |

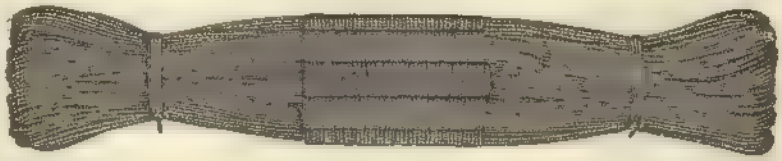
Nos. 2 and 3, One Gross, Nos. 4 to 6, Half Gross in a Box.

### Twisted Drab Linen.

15 Feet Hanks, 12 Connected

| | Per Gross. |
|---|---|
| No. 2—Size 2 | $2 25 |
| No. 3 Size 3 | 2 50 |
| No. 4 Size 4 | 2 75 |
| No. 5—Size 5 | 3 25 |
| No. 6 Size 6 | 3 50 |
| No. 8 Size 8 | 4 50 |

Nos. 2 and 3 One Gross: Nos. 4 to 8 Half Gross in a Box



### Braided Linen.

25 Feet Hanks, 12 Connected

| | Per Dozen |
|---|---|
| No. 2 - Size 2 | $1.30 |
| No. 3—Size 3 | 1 30 |
| No. 4—Size 4 | 1 30 |
| No. 5—Size 5 | 1 30 |
| No. 6 Size 6 | 1.30 |

Six Dozen in a Box

### Braided Sea Island Cotton.

15 Feet Hanks, 12 Connected

| | Per Gross. |
|---|---|
| No. 3 Size 3 | $5.40 |
| No. 4—Size 4 | 5 40 |
| No. 5 Size 5 | 5 40 |

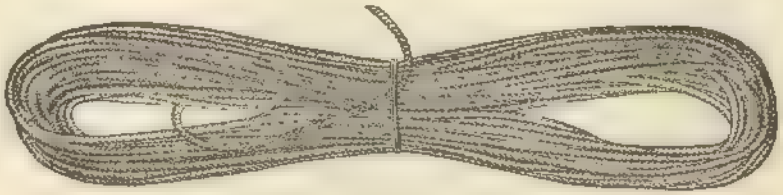
Half Gross in a Box

### Braided Sea Island Cotton.

25 Feet Hanks, 12 Connected

| | Per Gross. |
|---|---|
| No. 3—Size 3 | $9 00 |
| No. 4 Size 4 | 9 00 |
| No. 5 Size 5 | 9.00 |

Half Gross in a Box



### Braided Sea Island Cotton.

Natural and Variegated Colors. 84 Feet Hanks, 2 Connected

| | Per Dozen. |
|---|---|
| No. 1—Size 1 | $2 75 |
| No. 2—Size 2 | 2 50 |
| No. 3—Size 3 | 2.25 |
| No. 4—Size 4 | 2.25 |
| No. 5—Size 5 | 2.25 |

One Dozen in a Box.

# Mincing Knives.

Per Dozen.

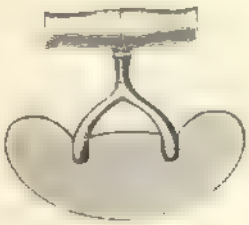
**No. 60** Sensible, Six Removable Cast Steel Blades, Nickel Plated, Japanned Iron Handle, . $5.50

One Dozen in a Box.

Per Dozen.

**No. 199**—Two Cast Steel Blades, Polished, Japanned Iron Frame, Wood Handle, . $4.25

Half Dozen in a Box.



Per Dozen.

**No. 9**—Cast Steel Blade, Polished, Brace Shank. Wood Handle. . $1.25

Per Dozen.

**No. 10**—Two Cast Steel Blades, Polished. Double Shank, Wood Handle, $2.25

Per Dozen

**No. 20**—Cast Steel Blade, Polished, Enameled Wood Handle, . . $7.00

Per Dozen.

**No. 5** Cast Steel Blade, Polished, Japanned Iron Handle . $3 00

Per Dozen

**No. 0** Cast Steel Blade, Polished, Wood Handle, $5.50

Per Dozen.

**No. 1300** Cast Steel Blade Polished, Rosewood Handle, with Nickel Plated Ferrule, $11.25

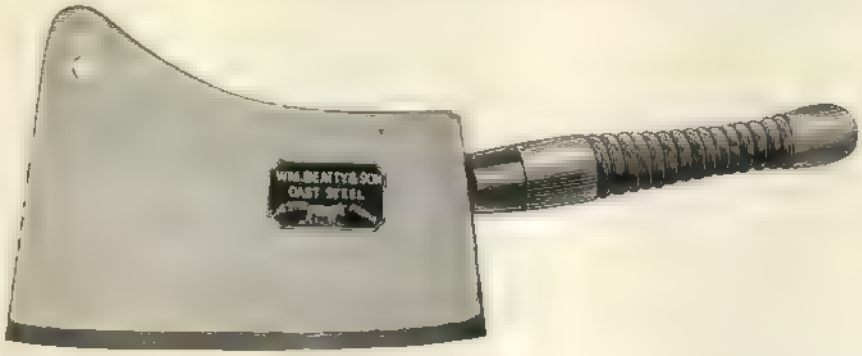
Half Dozen in a Box.

# Family Choppers.

| | Per Dozen. |
|---|---|
| **No. 10**—Home Choppers, Best Cast Steel, 6½ in. Cut, | $8 50 |

Half Dozen in a Box.

# Butchers' Choppers.



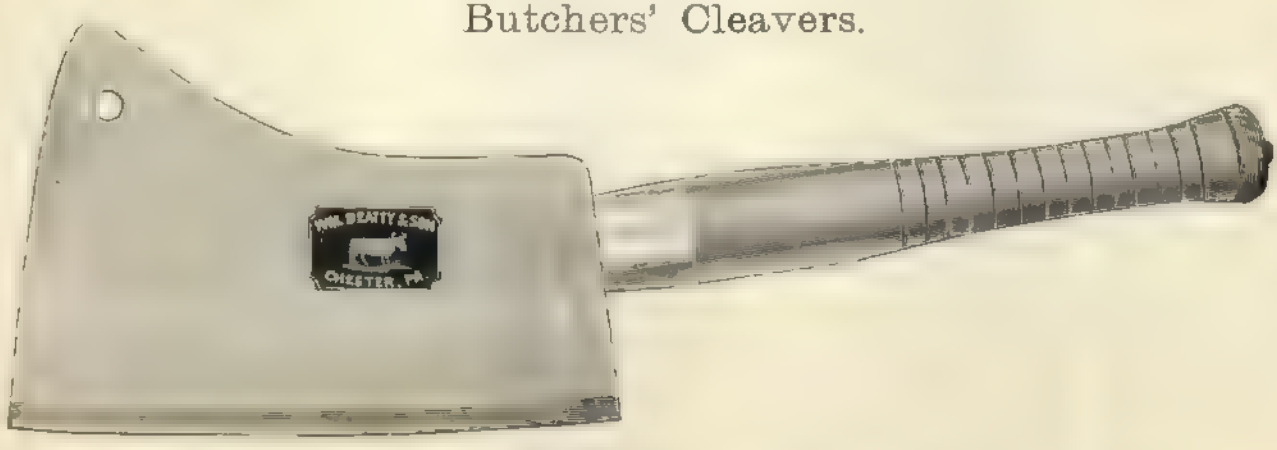

**Beatty's,**

**Extra Heavy Steel, Full Polished, Varnished Hickory Handle.**

| Nos. | 000 | 00 | 0 | 1 | 2 |
|---|---|---|---|---|---|
| Cut, Inches, | 6 | 7 | 8 | 9 | 10 |
| Per Dozen, | $10.00 | 11.50 | 13.50 | 15.00 | 16.50 |

Half Dozen in a Package.

# Butchers' Cleavers.



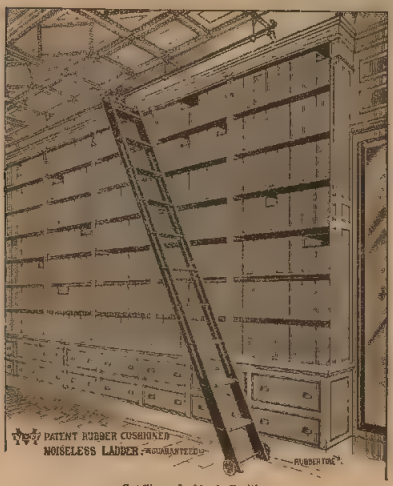

**Beatty's.**

**Extra Heavy Steel, Full Polished, Varnished Hickory Handle.**

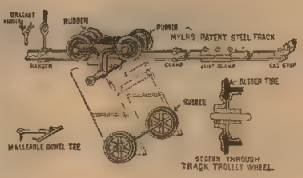
| Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|---|
| Cut, Inches, | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| Per Dozen, | $14.00 | 16.50 | 19.00 | 21.50 | 24.00 | 27.00 | 30.00 | 33.50 | 36.50 | 40.00 |

Quarter Dozen in a Package.

# Rolling Shelf Ladders.




Cut Shows Ladder in Position.




## Myers' Trolley Rolling Shelf Ladders.

| Code Kogelbak | | Each |
|---|---|---|
| No. 15 | Myers' Georgia Pine Ladders and Hangers, Complete with Trolley and Rubber Tire Floor Wheels, | $20.00 |
| **Code Kogelden** | | **Per Foot** |
| | Myers' Steel Track, Complete with Hanging Hooks, for No. 15 Store Ladder, | $0.30 |

### Instructions.

In ordering give following Measurements:
Entire Length of Track required.
Height of Ceiling from Floor.

### Description.

Ladder is 12 In. Wide, Steps 5 In. Wide, Open Panel Sides 5 In. Wide.

Track is Double Angle Steel Rail.

Trolley is provided with 3 In. Anti-Rattler Wheels with Rubber Tires.

Not carried in Stock, and can only be furnished for shipment Direct from Factory.

# Bracket Sets.

Code Fickling Per Dozen Sets

**No. 2—Nickel Plated Steel Frame, $15.00**
**Weight 18 lbs. Per Dozen.**

One-Twelfth Dozen Sets in a Box.

These sets are packed in paper boxes, and embrace a spring steel saw frame, polished and nickel-plated, 5x12 inches, having patent clamps for holding the saw blades, and rosewood handle; 3 sheets of designs, embracing a great variety of fancy and useful articles; 12 saw blades, 1 awl, 1 sheet of impression paper.

SCHWABACHER HARDWARE CO.

## Scroll Saws.

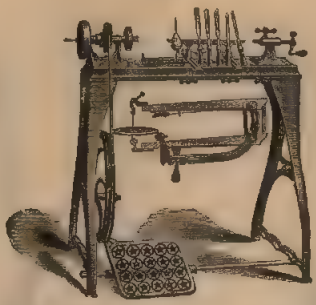
Code Fieldjes Each

**No. 2—New Rogers, Complete, . . $8.00**
**Weight 42 lbs. Each.**

Frame 36 inches high, made of iron, Painted and Japanned Black and ornamented with red and gilt stripes. Diameter of Balance Wheel, 4½ inches, with rim of solid Emery.

With each machine are 12 Saw Blades, Wrench, sheet of Designs, and 3 Drill Points. All parts made to interchange.

## Lathes.



Code Fieltros Each

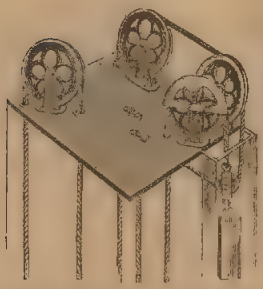
**No. 10—Lathe, Complete with Lathe Tools, Scroll Saw and Circular Saw Attachments, . . . . . $18.75**
**Weight 78 lbs. Each.**

Length of bed, 24 inches; swing of lathe, 5 inches; distance between centers, 13½ inches.

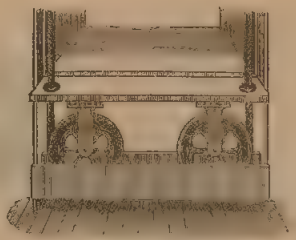
The lathe head has a 2-inch face plate, a spur center, a screw center, and a drill chuck to hold from 0 to ¼ inch round twist drills; on the outer side of the pulley is placed a solid emery wheel 4½x¾ inches and a drill spindle with chuck to hold drill points. It has a long and short tool rest, 5 turning tools, wrench, drill points, etc. This lathe is thoroughly built and finished; the planed and polished parts are nickel plated. The scroll sawing attachment is secured to the lathe bed with a bolt, and can be readily put on or taken off.

The circular saw attachment of a saw table 6x7 inches, a saw 3 inches in diameter and saw arbor. Lathe rest socket is used to support table.

# Dumb Waiter Fixtures.



Cut showing perspective view of Wheels at the top.



Cut showing Guide Wheel used at bottom, boxed in, to prevent the rope from running off.



## New York Safety Dumb Waiter Fixtures.

Code Isulus — Per Set

New York Safety, Copper Bronzed Castings, Comprising Six 8-In. Wheels, Two 4-In. Wheels, One Pulley for Weight and Safety Rope, Five 1¼-In. Thimbles, One ¾-In. Thimble, One Ring for Safety Rope, One Brake Grip and Ring for Cord, One Hooded Pulley for Grip, One Patent Plate, without Ropes, Capacity 50 to 75 lbs., . . . . . $36.00
Weight 68 lbs. Each.

Packed One Set in a Box.

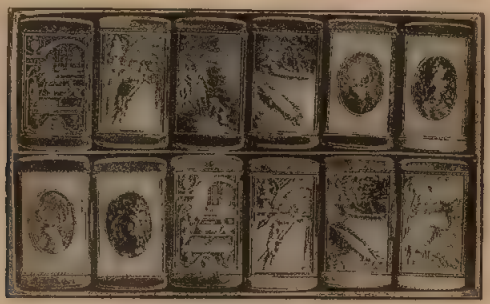
## National Dumb Waiter Fixtures.

Code Istac — Per Set

National Dumb Waiter Fixtures—Large Wheel 12 In., Small Wheels 3 In., Rope Weights or Core Not Included, $15.00
Weight 35 lbs. Per Set

This Dumb Waiter is adapted to all places where 50 lbs. or less are to be carried. Each Machine is packed in a box containing all the Pulleys and Standards necessary to complete the outfit. Dealers can handle these goods without repacking. Any ordinary weight will answer to counterbalance the Waiter Box.

# Match Safes.



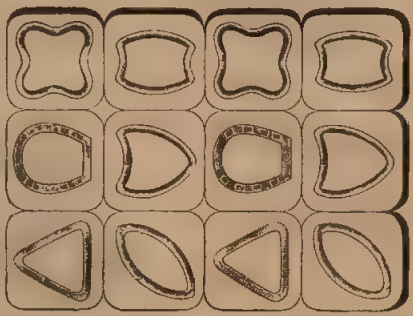
No. 200—Assorted, Nickel Plated, Snap Covers, . . . . . Per Dozen $4.00
One Dozen in a Display Box.

No. 6 Waterproof, Aluminum, . . Per Dozen $3.00

No. 10—Marble's, Waterproof, Pressed Steel, Knurled Case, Screw Cap, . . Per Dozen $6.00

# Key Rings.

No. 100—Polished Steel, Assorted, Three, Each ⅞, 1, 1¼ and 1½ In., . . Per Dozen $0.50

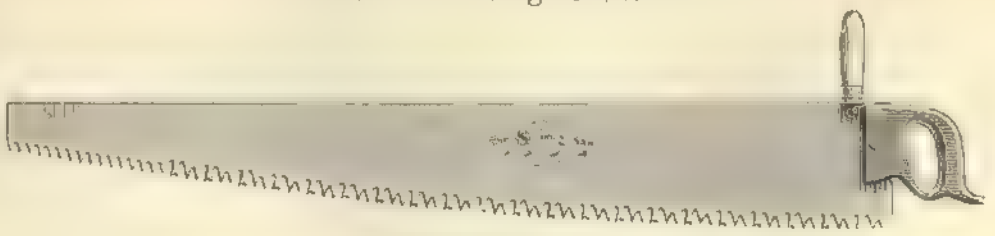


No. 460—Nickel Plated Steel, Assorted, Three, Each ⅞, 1, 1¼ and 1½ In., . Per Dozen $1.00
One Dozen on a Card.

No. 07—Assorted Patterns, All Nickel Plated, Per Dozen $1.50
One Dozen on a Card.

# One Man Cross Cut Saws.

Simonds Mfg. Co.'s.



**Champion Tooth.**

| Feet | 3½ | 4 | 4½ |
|---|---|---|---|
| Each, with Handles, | $1 85 | 2 10 | 2.35 |

**Lance Tooth.**

| Feet. | 3½ | 4 | 4½ |
|---|---|---|---|
| Each, with Handles, | $2 00 | 2.25 | 2.50 |

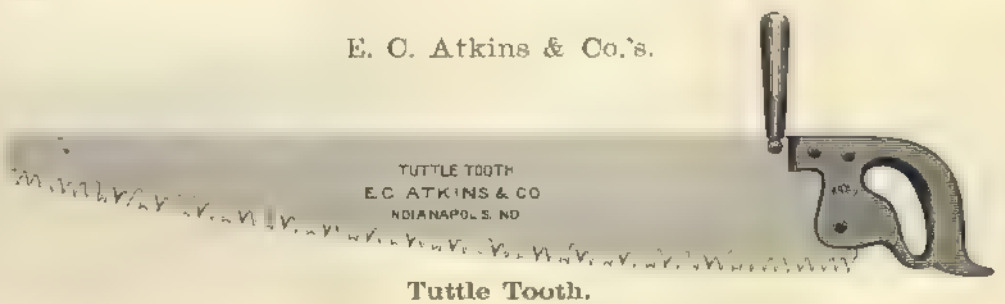
**Monarch Pattern, Lance Tooth.**

| | Each |
|---|---|
| 4 Feet, with Handles, | $3 40 |

**Canadian Monarch, Lance Tooth.**

| | Each |
|---|---|
| 4 Feet, with Handles, | $3.50 |

E. C. Atkins & Co.'s.

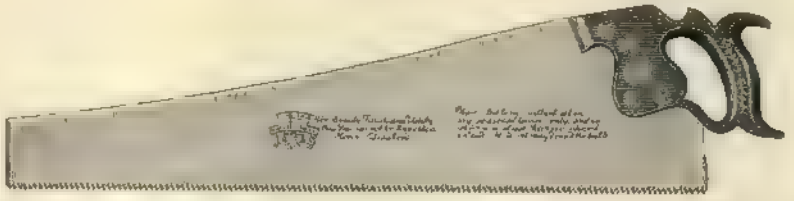



**Tuttle Tooth.**

| Feet, | 3⅛ | 4 | 4½ | 5 |
|---|---|---|---|---|
| Each, with Handles, | $2.10 | 2 40 | 2.70 | 3 00 |

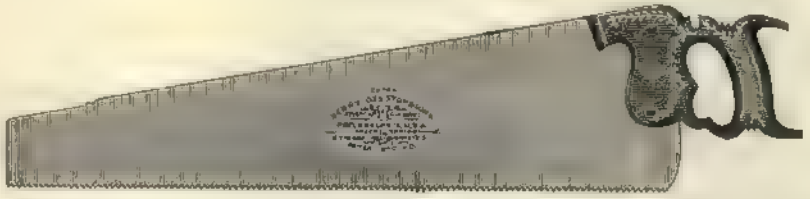
# Hand, Rip and Panel Saws.

H. Disston & Sons'.



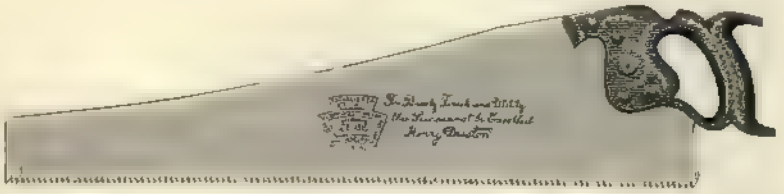
Extra London Spring Steel, Skew Back, Warranted, Carved and Polished Applewood Handle, 5 Improved Screws.

| | | Rip | Hand |
|---|---|---|---|
| **No. 120—Acme,** | Inches, | **28** | **26** |
| | Per Dozen, | $36 00 | 32.00 |



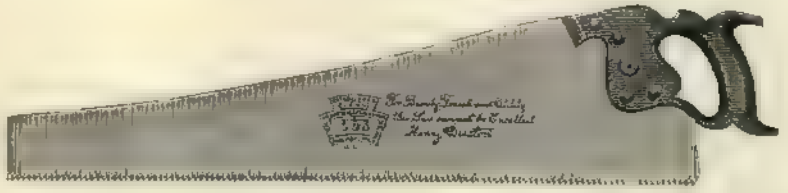
Extra Refined London Spring Steel, Warranted, Selected and Highly Polished Blade. Carved Handle 4 Improved Screws.

| | | Rip | Hand. | Panel. | | | | |
|---|---|---|---|---|---|---|---|---|
| **No. 12,** | Inches, | **28** | **26** | **24** | **22** | **20** | **18** | **16** |
| | Per Dozen, | $32.00 | 28.00 | 26.00 | 24.00 | 22.00 | 20.00 | 18.00 |



Spring Steel, Warranted, Skew Back, Carved Applewood Handle, Polished, 5 Improved Brass Screws

| | | Rip. | Hand |
|---|---|---|---|
| **No. D100,** | Inches, | **28** | **26** |
| | Per Dozen. | $26.00 | 23.00 |



Spring Steel, Warranted, Skew Back, Applewood Handle, Polished Edge, 5 Improved Screws.

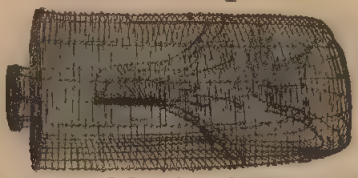
| | | Rip. | Hand. | Panel. | | | | |
|---|---|---|---|---|---|---|---|---|
| **No. D8,** | Inches, | **28** | **26** | **24** | **22** | **20** | **18** | **16** |
| | Per Dozen, | $25.00 | 22.00 | 21.00 | 19.50 | 17.50 | 16.00 | 14.50 |

Cast Steel, Grained Blade, Warranted, Beech Handle, Polished Edge, 4 Improved Screws

| | | Rip. | Hand | Panel. | | | | |
|---|---|---|---|---|---|---|---|---|
| **No. 7,** | Inches, | **28** | **26** | **24** | **22** | **20** | **18** | **16** |
| | Per Dozen, | $23.50 | 20.00 | 19.00 | 18.00 | 16.00 | 14.00 | 13 00 |

One-Third Dozen in a Box

# Rat Traps.



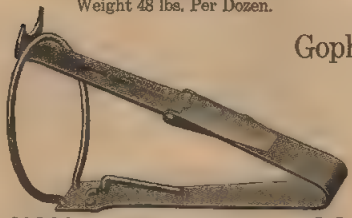
Code Ledaca — Per Dozen

**No. 3**—Genuine Marty, Bronzed Steel Wire, Strongly Braced, Size 16 In. Long, 9¼ In. Wide, 7¼ In. High, . . . $15.00
Weight 48 lbs. Per Dozen.

Code Ledacs — Per Dozen

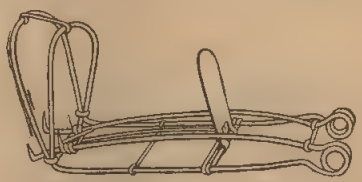
**No. 23**—Marty Pattern, Coppered Steel Wire, Wire ½ In. Apart, Strongly Braced, Size 19 In. Long, 10½ In. Wide, 7¾ In. High, . . . . $15.00
Weight 25 lbs. Per Dozen.

# Gopher Traps.



Code Lederig — Per Dozen

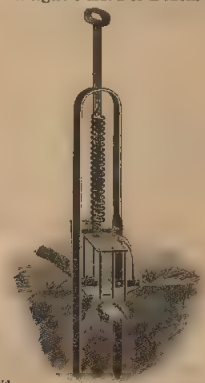
**No. 1**—Newhouse, 1 In. Flat Steel Spring Body, Steel Wire Ring, 3 Prongs, . $2.25
Weight 6 lbs. Per Dozen.



Code Ledesma — Per Dozen

**No. 13**—C. V., 2 Rings, Steel Wire, Double Coiled End, Upper and Lower Sections Reinforced, Tinned Steel Lever and 4 Sharp Pointed Prongs, . . . $3.00
Weight 6 lbs. Per Dozen.

# Mole Traps.



Code Leafdid — Per Dozen

**No. 1**—Reddick's, ⅝ In. Flat Steel Frame, 6 Tinned Steel Wire Prongs, 5½ In. Long, Length Over All 24 In., Width 3¾ In., . . . . . $13.00
Weight 50 lbs. Per Dozen.
Half Dozen in a Crate.

Code Leefden — Per Dozen

**Out-o'-Sight**, Japanned Iron Frame, Coppered Steel Wire Spring, . . . $9.00
Weight 24 lbs. Per Dozen.

SCHWABACHER HARDWARE CO.

# Steel Game Traps.

### Genuine Newhouse.

Single Spring, with Chain.

| | | Per Dozen |
|---|---|---|
| Code Leenbock No. 0 | —Rat, Spread of Jaws 3½ In., Weight 9 lbs. Per Dozen. | $4.25 |
| Code Leeped No. 1 | —Muskrat, Spread of Jaws 4 In., Weight 12 lbs. Per Dozen. | 5.00 |
| Code Leepheid No. 1½ | —Mink, Spread of Jaws 4⅞ In., Weight 16 lbs. Per Dozen. | 7.50 |

### Hawley & Norton.

Single Spring, with Chain.

| | | Per Dozen |
|---|---|---|
| Code Leergast No. 0 | —Rat, Spread of Jaws 3½ In., Weight 7¼ lbs. Per Dozen. | $4.25 |
| Code Leerhaus No. 1 | —Muskrat, Spread of Jaws 4 In., Weight 9¼ lbs. Per Dozen. | 5.00 |
| Code Leerbeit No. 1½ | —Mink, Spread of Jaws 4⅞ In., Weight 15 lbs. Per Dozen. | 7.50 |

### Victor, Newhouse Pattern.

Single Spring, with Chain.

| | | Per Dozen |
|---|---|---|
| Code Leerkopf No. 0 | —Rat, Spread of Jaws 3½ In., Weight 6 lbs. Per Dozen. | $4.25 |
| Code Leesbock No. 1 | —Muskrat, Spread of Jaws 4 In., Weight 8½ lbs. Per Dozen. | 5.00 |
| Code Leeslos No. 1½ | —Mink, Spread of Jaws 4⅞ In., Weight 16½ lbs. Per Dozen. | 7.50 |

### Genuine Newhouse.

Single Spring, with Chain.

| | | Per Dozen |
|---|---|---|
| Code Leestrant No. 2½ | —Otter, Spread of Jaws 5 In., Weight 24 lbs. Per Dozen. | $16.50 |
| Code Leeway No. 3½ | —Otter, Spread of Jaws 6½ In., Weight 44 lbs. Per Dozen. | 18.50 |

### Genuine Newhouse.

Double Jaw, Single Spring, with Chain.

| | | Per Dozen |
|---|---|---|
| Code Leizen No. 91 | —Spread of Jaws 5½ In., Weight 12 lbs. Per Dozen. | $6.00 |
| Code Legajo No. 91½ | —Spread of Jaws 6½ In., Weight 17 lbs. Per Dozen. | 9.00 |

These Traps are Especially Adapted to Muskrat, Skunk, Mink, Raccoon, Fox and Woodchuck. Muskrats do not gnaw their legs off when caught, but twist out, especially when caught by the fore-leg which has smaller bones and less muscle than the hind leg. These Traps do not allow the animal to free itself on account of the Double Jaws.

### Genuine Newhouse.

Double Spring, with Chain.

| | | Per Dozen |
|---|---|---|
| Code Legalium No. 2 | —Fox, Spread of Jaws 4⅞ In., Weight 20 lbs. Per Dozen. | $10.50 |
| Code Legalise No. 3 | Otter, Spread of Jaws 5½ In., Weight 32 lbs. Per Dozen. | 14.00 |

### Hawley & Norton.

Double Spring, with Chain.

| | | Per Dozen |
|---|---|---|
| Code Legmurel N. 2 | —Fox, Spread of Jaws 4⅞ In., Weight 14 lbs. Per Dozen. | $10.50 |
| Code Legart No. 3 | —Otter, Spread of Jaws 5½ In., Weight 19 lbs. Per Dozen. | 14.00 |

### Victor, Newhouse Pattern.

Double Spring, with Chain.

| | | Per Dozen |
|---|---|---|
| Code Legatary No. 2 | —Fox, Spread of Jaws 4⅞ In., Weight 15 lbs. Per Dozen. | $10.50 |
| Code Legatine No. 3 | —Otter, Spread of Jaws 5½ In., Weight 26 lbs. Per Dozen. | 14.00 |

## Gun Nipples.

| | Per gross |
|---|---|
| Small 1-5, Assorted sizes and assorted threads | 3.50 |

Three dozen in a box.

## Musket Nipples.

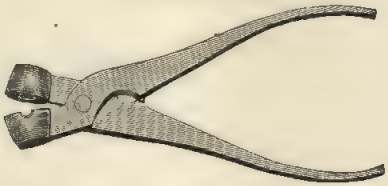
| | Per gross |
|---|---|
| Assorted sizes | 11 20 |

Three dozen in a box.

## Gun Rod Tips.

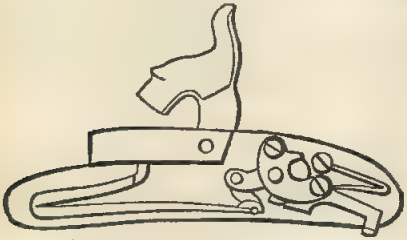
| | Per gross |
|---|---|
| Brass, Open Head, ass'd sizes | 4.50 |
| " Solid " " " | 7.20 |

## Bullet Moulds.



| No. | 10 | 12 | 16 | 20 | 26 |
|---|---|---|---|---|---|
| Per dozen | 3.40 | 3.40 | 3.40 | 3.40 | 2 40 |

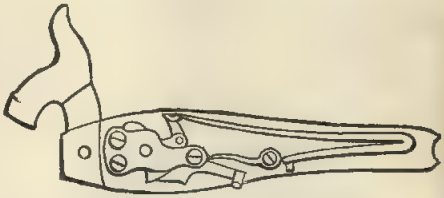
## Gun Locks.



Percussion Front Action Gun Locks.

| | Per dozen |
|---|---|
| Front Action, Left Hand, Polished | 14.40 |
| " " Right " " | 14 40 |

Half dozen in box.



Percussion Back Action Gun Locks.

| | Per dozen |
|---|---|
| Back Action, Left Hand | 15 20 |
| " " Right " | 15 20 |

Packed with Screws.

## Powder Flasks.

| No. | | | Per dozen |
|---|---|---|---|
| J502, | 8 oz., | Common Spring | 4 10 |
| 0440, | 8 " | " " | 6.60 |
| 0440, | 8 " | " " with Cord | 6.90 |
| 188K, | 8 " | Patent Inside Spring Top | 12.00 |
| 188K, | 12 " | " " " | 15.00 |

Half dozen in a box.

## Shot Pouches.

| No. | | | Per dozen |
|---|---|---|---|
| 1200, | 2½ lbs. | Plain Pattern, Russet Leather, Brass Lever Charger | 9.00 |
| 1283, | 2½ " | Heavy Pattern, Russet Leather, Brass Lever Charger | 11.60 |

H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

# Plumb Bobs.

**Brass, Steel Point.**

| | Per Dozen |
|---|---|
| **No. 13**—Weight 2 Lbs., | $20 00 |
| **No. 14**—Weight 3 Lbs. 4 Oz., | 25 50 |

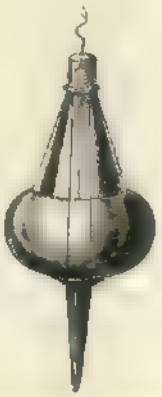
**Sargent's Adjustable, Brass, Steel Point.**

| | Per Dozen |
|---|---|
| **No. 6**—Weight 11½ Oz., | $10.00 |

**Stanley's Adjustable.**

| | Per Dozen. |
|---|---|
| **No. 2**—Bronze Metal Steel Point, Weight 13 Oz., | $21.00 |
| **No. 5**—Iron, Steel Point, Weight 12 Oz., | 12.00 |

These Plumb Bobs are constructed with a reel at the upper end upon which the line may be kept. By dropping the bob with a slight jerk, while the ring is held in the hand, any desired length of line may be reeled off. A spring, which has its bearing on the reel, will check and hold the bob firmly at any point on the line. The pressure of the spring may be increased or decreased by means of the screw which passes through the reel. A suitable length of line comes already reeled on each Plumb Bob



**Lamp's Millwrights', Brass, Steel Point.**

| | Per Dozen |
|---|---|
| **No. 0**—Weight 1 Lb., | $18 00 |
| **No. 1**—Weight 1 Lb. 14 Oz., | 30 00 |
| **No. 2**—Weight 2 Lbs. 2 Oz., | 36 00 |
| **No. 3**—Weight 2 Lbs 10 Oz., | 36 00 |
| **No. 4**—Weight 3 Lbs 2 Oz., | 39 00 |

No. 2.

No. 0.

**Iron, Japanned, Adjusted Top.**

| | Per Dozen. |
|---|---|
| **No. 2**—Weight 9½ Oz., | $1.60 |
| **No. 00**—Weight 1 Lb. 2 Oz., | 3.00 |
| **No. 0**—Weight 2 Lbs. 10 Oz., | 4.00 |

**Lead, Steel Point.**

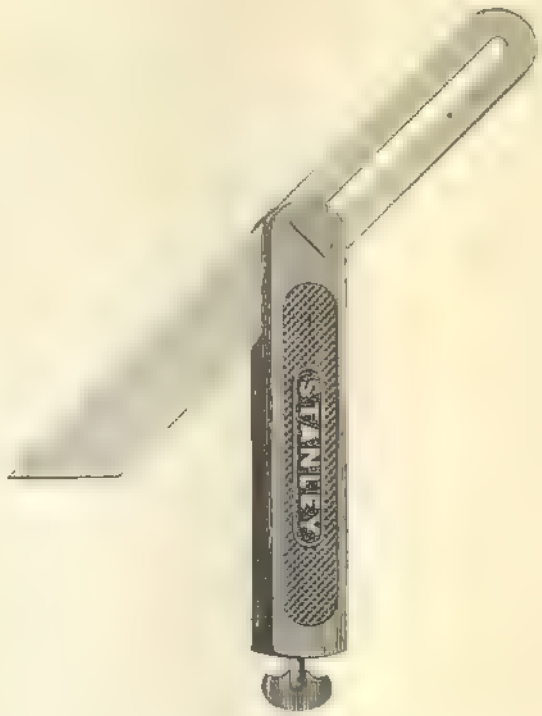
| | Per Dozen |
|---|---|
| **No. 3**—Weight 12 Oz., | $5.00 |

# Sliding T Bevels.

**No. 25.**

Rosewood Handle, with Flush Brass Lever

| Inches, | 6 | 8 | 10 | 12 | 14 |
|---|---|---|---|---|---|
| Per Dozen, | $3.30 | 3.60 | 3.90 | 4.20 | 4.50 |



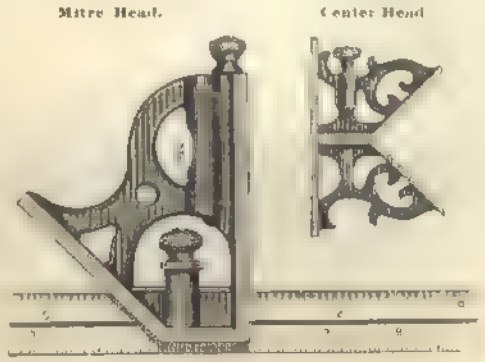

**No. 18.**

Iron Handle, Steel Blade, with Parallel Edges.

| Inches, | 6 | 8 | 10 |
|---|---|---|---|
| Per Dozen, | $6.00 | 6.50 | 7.50 |

Half Dozen in a Box.

# Try and Center Squares.




| | Per Set |
|---|---|
| No. 9 Chaplin's Patent. 9 in. | $1.90 |
| No. 12 -Chaplin's Patent. 12 in., | 2.00 |

One Set in a Box.

# Combined Square and Mitre.

Per Dozen

No. 8—Fox's Patent. Iron Handle, Polished Steel Blade, Length 10 in., $12 00

Half Dozen in a Box

# Oil Fillers.

**Steel, Screw Top.**

Copper Plated Inside and Outside.

Code Calibar — Per Dozen

No. 210—Capacity 1 Qt., 5 In. Diam., . $20.00
Weight 17 lbs. Per Dozen.

Code Galibot

No. 211—Capacity 2 Qts., 6 In. Diam., . 24.00
Weight 22 lbs. Per Dozen.

**Zinc, Screw Top.**

Code Galician — Per Dozen

No. 735—Capacity 1 Qt., . . . . $6.00
Weight 14 lbs. Per Dozen.

# Tallow Pots.

**Steel, Copper Plated.**

Code Galigue — Per Dozen

No. 213—Capacity 2 Qts., 6 In. Diam., . . . . . $25.00
Weight 26 lbs. Per Dozen.

# Inspectors' or Locomotive Torches.

**Non Explosive, Steel, Copper Plated Inside and Outside.**

Code Galimo — Per Dozen

No. 26 Capacity 1 Pt., 2 In. Diam., 15 In. Long, Brass Cap and Tube, . . $12.00
Weight 12 lbs. Per Dozen.

Code Galingale — Per Dozen

No. 27—Capacity 1½ Pts., 4⅛ In. Diam., 4½ In. High, Brass Cap and Tube, . $12.00
Weight 15 lbs. Per Dozen.

# Oilers.

No. 620

No. 600

**Round, Steel, Copperized.**

Code Galheta — Per Dozen
**No. 620**—Capacity 1 Pint, Straight Spout, $3.50
Weight 4 lbs. Per Dozen.

**Steel, Copper Plated Inside and Outside.**

Code Galhardo — Per Dozen
**No. 600S**—Capacity 1 Pint, Straight Spout, $5.00

Code Galheroe
**No. 600B**—Capacity 1 Pint, Bent Spout, 5.00
Weight 6 lbs. Per Dozen.

**Williamson's Funnel-Kan.**
Round, Steel, Copperized.

Code Galiance — Per Dozen
**No. 20**—Capacity 1 Pint, 5 In. Straight Spout, . . . . . $4.00
Weight 7 lbs. Per Dozen.

This Oiler combines Oiler, Filler and Funnel, has false breast and spout which makes a very convenient funnel, by removing upper section of spout a filler is made for handling oil in cold weather and heavy oils, containing all combinations for a handy and serviceable can.

**Round, Tin, Spring Bottom.**

Code Galgles — Per Dozen
**No. 210S**—Capacity 1 Pint, Straight Spout, $1.25
Weight 3 lbs. Per Dozen.

Code Galgpalen
**No. 210B**—Capacity 1 Pint, Bent Spout, . 1.25
Weight 3 lbs. Per Dozen.

## Oiler Spouts.

**For Chase's Zinc Oilers.**

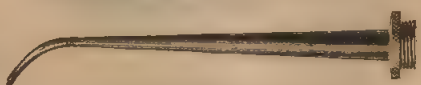
| For Oilers Nos., | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Length, In., | 2 3/16 | 4 1/16 | 4 3/16 | 4 7/8 | 4 7/8 | 4 7/8 |
| Per Dozen, . | $0.60 | .65 | .65 | .70 | .70 | .70 |

**For Chase's Brass Oilers.**

| For Oilers Nos., . | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| Per Dozen, . . . | $1.10 | 1.10 | 1.20 | 1.20 | 1.20 |

**For Mowing Machine Oilers.**

Per Dozen
Straight, for No. 210 Oilers, . . . . $0.60
Bent, for No. 210 Oilers, . . . . .70



**For Steel Mowing Machine Oilers.**

Per Dozen
Straight, for No. 600 Oilers, . . . . $2.40
Bent, for No. 600 Oilers, . . . . 2.40

# Body Protectors.

Reach.

Each

**No. 5P**—Association, Full Size, Catchers' Protectors, Extra Strong, of Special Rubber, Covered with Olive-Brown Cloth, . . . . . $6.00

Each

**No. 1P** League, Catchers' Protectors, Made of Best Rubber, Covered with Grey Mixed Cloth, . . . . . $5.00

**No. 1AP** Amateur, Catchers' Protectors, Made of Fine Quality Rubber, Covered with Olive-Brown Cloth, . . 4.00

**No. 2AP** Special, Catchers' Protectors, Made of Good Rubber, Covered with Khaki Cloth, . . . . . 3.00

SCHWABACHER HARDWARE CO.

Each

**No. 2P**—Men's Size, Made of Heavy Canvas, with Reed Protectors, Padded with Felt, . . . . . $1.50

Each

**No. 3P**—Boys' Size, Made of Heavy Canvas, Padded with Best Felt, . . . $1.00

## Score Books.

Each

**No. 2SB** Pocket Size, Paper Cover, for 22 Games, . . . . . $0.25

**No. 3SB**—Pocket Size, Cloth Cover, for 50 Games, . . . . . .50

**No. 4SB**—Club Size, Cloth Cover, for 30 Games, . . . . . .75

# Base Ball Bases.

Reach.

Per Set

**No. E3** Amateur, Heavy White Canvas, Well Stuffed, Strong Straps, Complete with Spikes, . $3.50

## Pitchers' Toe Plates.

Each

**No. 5T**—Pitchers' Toe Plates, Made for Right or Left Shoe, . . . . . $0.25

## Shoe Plates.

No. 2H

No. 2T

Per Pair

**No. 2H** League Heel Plates, . . . . $0.25
**No. 2T**—League Toe Plates, . . . .25

No. 6H

No. 6T

Per Pair

**No. 6H** Amateur Heel Plates, . . . . $0.10
**No. 6T**—Amateur Toe Plates, . . . .10

## Scoring Tablets.

Each

**Scoring Tablets**, White Celluloid, for Records of Runs and Outs, . . . . . $0.25

## Umpires' Indicators.

Each

**Umpires' Indicators**, White Celluloid, for Record of Balls and Strikes, . . . $0.50

## Base Ball Guides.

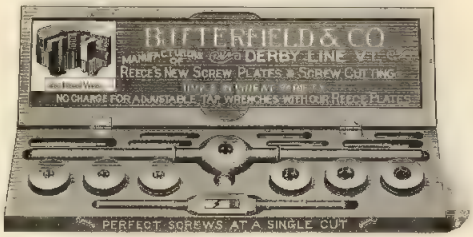
Each

Reach Official Base Ball Guides, . . . $0.10
Reach Art of Curve Pitching, . . . .15
Reach Art of Batting, . . . . . .15

H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

# REECE'S NEW SCREW PLATES.

| | | Each |
|---|---|---|
| No. CC | 4 Small Collets Cutting ¼, 5/16, ⅜, 7/16, Stock 14 inches. / 3 Large " " ½, ⅝, ¾, " 28 " | 22.40 |
| No. EE | 4 Small Collets Cutting ¼, 5/16, ⅜, 7/16, Stock 14 inches / 5 Large " " ½, ⅝, ¾, ⅞, 1, " 28 " | 35.00 |


BUTTERFIELD & CO
MANUFACTURERS OF DERBY LINE VT.
REECE'S NEW SCREW PLATES & SCREW CUTTING
NO CHARGE FOR ADJUSTABLE TAP WRENCHES WITH OUR REECE PLATES
PERFECT SCREWS AT A SINGLE CUT

Cut showing size C, complete in box.

## LIST OF SIZES.

The prices as shown include one or more Adjustable Tap Wrenches as the assortment requires.

| | | Price complete |
|---|---|---|
| Size A, Stock 22 inches long, Cuts ¼, 5/16, ⅜, 7/16, and ½ inch | | 16.80 |
| B, " 26 " " | ⅝, ¾, ⅞, 1, and 1 inch | 24.50 |
| C, " 26 " " | ¼, 5/16, ⅜, 7/16, ½, ⅝, and ¾ inch | 22.40 |
| D, " 26 " " | ⅜, 7/16, ½, ⅝, ¾, ⅞ and 1 inch | 30 80 |
| E, " 26 " " | ¼, 5/16, ⅜, 7/16, ½, ⅝, ¾, ⅞ and 1 inch | 35.00 |
| F, " 53 " " | 1½, 1¼, 1⅜, and 1½ inches | 52 50 |
| G, Two Stocks, one 22 inches long, cuts ¼, 5/16, ⅜, 7/16, ½, ⅝ and ¾ inch: and one stock 40 inches long, cuts ⅞, 1, 1⅛ and 1¼ inch | | 56 00 |
| H, Stock 20 inches long, cuts ½, ⅝, ¾, ⅞ and 1 inch | | 18.90 |
| K Two Stocks, one 22 inches long, cuts ¼, 5/16, ⅜, 7/16, ½, ⅝, and ¾ inch; and one stock 53 inches long, cuts ⅞, 1, 1⅛, 1¼, 1⅜, and 1½ inch | | 84.00 |
| L, Stock 53 inches long, cuts ⅞, 1, 1⅛, 1¼, 1⅜ and 1½ inch | | 63.00 |
| M, Two Stocks, one 26 inches long, cuts ¼, 5/16, ⅜, 7/16, ½, ⅝, ¾, ⅞ and 1 inch; and one stock 53 inches long, cuts 1⅛, 1¼, 1⅜, and 1½ inch | | 81 20 |

Stocks 22 and 26 inches long, hold Collets 2½ inches in diameter.
Stocks 40 and 53 inches long, hold Collets 4 inches in diameter.

The above all made in Canada. ANY NUMBER NOT IN STOCK WILL BE SHIPPED FROM FACTORY

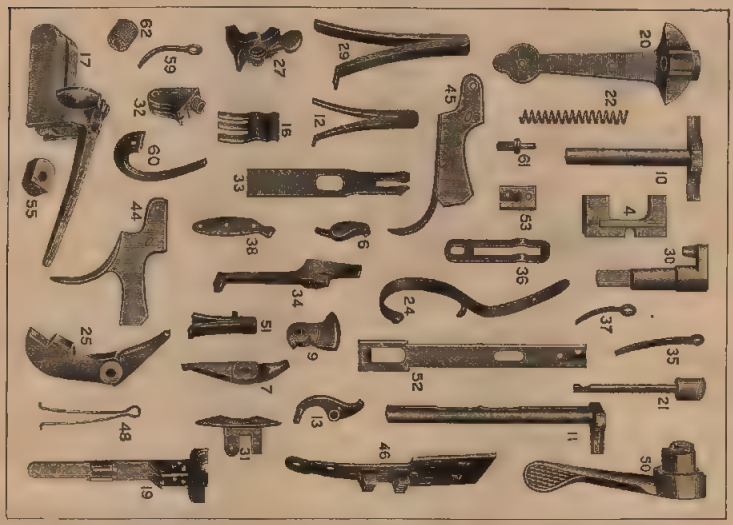
## COTTER PINS.

| Inches | 1 | 1¼ | 1½ | 1¾ | 2 | 2½ | 2½ | 3 | |
|---|---|---|---|---|---|---|---|---|---|
| 3/32 | 18 | .20 | | | | | | | per gross. |
| 1/8 | .20 | .20 | .24 | .26 | .28 | | | | " |
| 5/32 | .22 | .24 | .26 | .28 | .30 | | | | " |
| 3/16 | .24 | .27 | .30 | .32 | .36 | .38 | .40 | .48 | " |
| 7/32 | | | .40 | .44 | .48 | .52 | .56 | .64 | " |
| 1/4 | | | | | .56 | | .64 | .75 | " |
| 9/32 | | | | | | | .88 | 1.05 | " |

One gross in a box

# Component Parts.

SCHWABACHER HARDWARE CO.



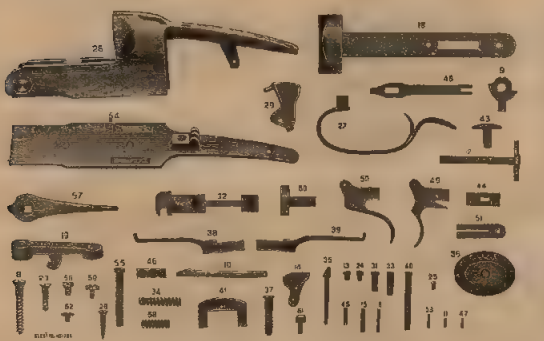
Remington Double Barrel Hammerless Shot Guns.

| Numbers and Parts | K-KD | KE KED | AE FE | BE | CE | DE |
|---|---|---|---|---|---|---|
| 2 Butt stock | $8.00 | $8.00 | $8.00 | $15.00 | $25.00 | $35.00 |
| 4 Butt plate | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 3.50 |
| 4 Bolt | .25 | .25 | .25 | .25 | .25 | .25 |
| 5 Butt plate screw | .06 | .06 | .06 | .06 | .06 | .12 |
| 6 Center seat | | .50 | .50 | .50 | .50 | .50 |
| 7 Cocking levers (2), each | .40 | .40 | .40 | .40 | .40 | .40 |
| 8 Cocking lever pins | .03 | .03 | .03 | .03 | .03 | .03 |
| 9 Ejector hammer R H | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |
| 9 Ejector hammer, L H | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |
| 10 Extractor | .75 | | | | | |
| 11 Ejector, R H | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |
| 11 Ejector, L H | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 |
| 13 Ejector spring, R H | .50 | .50 | .50 | .50 | .50 | .50 |
| 13 Ejector spring, L H | .50 | .50 | .50 | .50 | .50 | .50 |
| 13 Ejector sear | .50 | .50 | .50 | .50 | .50 | .50 |
| 14 Ejector hammer pin | .10 | .10 | .10 | .10 | .10 | .10 |
| 15 Ejector sear and ejector stop pin | .10 | .10 | .10 | .10 | .10 | .10 |
| 16 Ejector sear spring | .50 | .50 | .50 | .50 | .50 | .50 |
| 17 Frame | 10.00 | 10.00 | 10.00 | 18.00 | 25.00 | 40.00 |
| 18 Fore-end, complete | 5.00 | 5.00 | 12.00 | 14.00 | 17.00 | 21.00 |
| 19 Fore-end iron | 2.50 | 2.50 | 2.75 | 2.75 | 2.75 | 3.25 |
| 20 Fore-end tip | | | .50 | .75 | 1.00 | 1.25 |
| 21 Fore-end plunger | | | .15 | .15 | .15 | .15 |
| 22 Fore-end plunger spring | | | .05 | .05 | .05 | .05 |
| 23 Front sight | .05 | .05 | .05 | .05 | .05 | .05 |
| 24 Guard bow | 1.00 | 1.00 | 1.00 | 1.25 | 2.00 | 3.00 |
| 25 Hammer, R H | .75 | .75 | .75 | .75 | .75 | .75 |
| 25 Hammer, L H | .75 | .75 | .75 | .75 | .75 | .75 |
| 26 Hammer pin | .03 | .03 | .03 | .03 | .03 | .03 |
| 27 Joint check | .50 | .50 | .50 | .50 | .50 | .50 |
| 28 Lower tang screw | .06 | .06 | .06 | .10 | .15 | .20 |
| 29 Main spring, R H | .75 | .75 | .75 | .75 | .75 | .75 |
| 29 Main spring, L H | .75 | .75 | .75 | .75 | .75 | .75 |
| 30 Rocker bolt | .25 | .25 | .25 | .25 | .25 | .25 |
| 31 Safety slide | $0.40 | $0.40 | $0.40 | $0.40 | $0.40 | $0.80 |
| 32 Safety stud | .20 | .20 | .20 | .20 | .20 | .20 |
| 33 Safety plunger | .20 | .20 | .20 | .20 | .20 | .20 |
| 34 Sear, R H | .40 | .40 | .40 | .40 | .40 | .40 |
| 34 Sear, L H | .40 | .40 | .40 | .40 | .40 | .40 |
| 35 Sear spring, R H | .25 | .25 | .25 | .25 | .25 | .25 |
| 35 Sear spring, L H | .25 | .25 | .25 | .25 | .25 | .25 |
| 36 Safety spring | .05 | .05 | .05 | .05 | .05 | .05 |
| 37 Safety plunger spring | .05 | .05 | .05 | .05 | .05 | .05 |
| 38 Safety rocker | .15 | .15 | .15 | .15 | .15 | .15 |
| 39 Safety rocker pin | .03 | .03 | .03 | .03 | .03 | .03 |
| 40 Short rocker pin | .03 | .03 | .03 | .03 | .03 | .03 |
| 41 Sear pin | .03 | .03 | .03 | .03 | .03 | .03 |
| 42 Safety plunger slide pin | .03 | .03 | .03 | .03 | .03 | .03 |
| Screws each | .06 | .06 | .06 | .06 | .06 | .06 |
| 43 Trigger plate screw | .10 | .10 | .10 | .15 | .15 | .25 |
| 44 Trigger, R H | .25 | .25 | .25 | .25 | .25 | .25 |
| 45 Trigger, L H | .25 | .25 | .25 | .25 | .25 | .25 |
| 46 Trigger plate | 2.00 | 2.00 | 2.00 | 2.00 | 3.00 | 4.00 |
| 47 Trigger plate nut | .15 | .15 | .15 | .15 | .15 | .15 |
| 48 Trigger spring | .05 | .05 | .05 | .05 | .05 | .05 |
| 49 Trigger pin | .03 | .03 | .03 | .03 | .03 | .03 |
| 50 Top lever | 1.00 | 1.00 | 1.00 | 1.10 | 1.25 | 1.50 |
| 51 Top lever spring | .50 | .50 | .50 | .50 | .50 | .50 |
| 52 Tip bolt | .25 | .25 | .25 | .25 | .25 | .25 |
| 53 Tip bolt cap | | | | .10 | .10 | .10 |
| 54 Tip bolt screw | | | | .05 | .06 | .05 |
| 55 Tip escutcheon | | | | .10 | .10 | .10 |
| 56 Tip stock | 2.50 | 2.50 | | | | |
| 57 Uppertang screw | .10 | .10 | .10 | .10 | .15 | .25 |
| 58 Fore-end (wood only) | 3.00 | 3.00 | 3.00 | 5.00 | 8.50 | 11.50 |
| 59 Fore-end catch spring | .15 | .15 | | | | |
| 60 Fore-end catch | .35 | .35 | | | | |
| 61 Firing pin | .10 | .10 | .10 | .10 | .10 | .10 |
| 62 Cone | .20 | .20 | .20 | .20 | .20 | .20 |

# Component Parts.

## No. 225 Stevens Double Barrel Shot Guns.

| | | Each |
|---|---|---|
| 1 | Barrel | $5 00 |
| 2 | Butt stock | 5 00 |
| 2A | Butt stocks turned in the rough | 2 30 |
| 3 | Butt plate | 50 |
| 4 | Butt plate screws | 05 |
| 5 | Extractor | 75 |
| 6 | Extractor lever | 20 |
| 7 | Extractor lever pin | 05 |
| 8 | Extractor screw | 05 |
| 9 | Fore-end, wood | 1 25 |
| 10 | Fore-end, wood screw (long) | $0 05 |
| 11 | Fore-end wood screw (short) | 05 |
| 12 | Fore-end, iron | 1 00 |
| 13 | Fore-end spring | 35 |
| 14 | Fore-end spring spring | 10 |
| 15 | Fore-end spring pin | 05 |
| 16 | Fore-end spring screw | 10 |
| 17 | Firing pin | 15 |
| 18 | Firing pin screw | 05 |
| 18 | Front sight | $0 05 |
| 20 | Frame | 4 00 |
| 21 | Guard | 75 |
| 22 | Guard screw (large) | 05 |
| 23 | Guard screws (small | 05 |
| 24 | Hammer (right) | 75 |
| 25 | Hammer (left) | 75 |
| 26 | Hammer screw | 10 |
| 27 | Hammer shaft | 10 |
| 28 | Hammer shaft collar | 05 |
| 29 | Locking bolt | 1 30 |
| 30 | Locking bolt screw | 05 |
| 31 | Mainspring | 10 |
| 32 | Mainspring plunger seat | 15 |
| 33 | Mainspring plunger head (right) | 15 |
| 34 | Mainspring plunger head (left) | 15 |
| 35 | Sear (right) | 25 |
| 36 | Sear (left) | 25 |
| 37 | Sear Spring | 10 |
| 38 | Sear spring screw | 05 |
| 39 | Sear screw | 05 |
| 40 | Sear stop | 05 |
| 41 | Trigger (right) | 25 |
| 42 | Trigger (left) | 25 |
| 43 | Trigger pin | 05 |
| 44 | Trigger spring | 10 |
| 45 | Trigger spring screw | 05 |
| 46 | Trigger plate | 1 75 |
| 47 | Trigger plate screw (rear) | 05 |
| 48 | Trigger plate screw (front) | 05 |
| 49 | Trigger plate screw (top) | 05 |
| 50 | Top snap | 75 |
| 51 | Top snap plunger | 5 |
| 52 | Top snap screw | 05 |
| 53 | Top snap lever | 05 |
| 54 | Top snap spring | 05 |
| 55 | Tumbler (right) | 50 |
| 56 | Tumbler (left) | 50 |



## No. 350—Stevens Double Barrel Shot Guns.

| | | Each |
|---|---|---|
| 1 | Barrel, No. 350 | $10 00 |
| 4 | Butt stock, plain checked | 5 00 |
| 5 | Butt stock, fancy checked | 10 00 |
| 6 | Butt stock, extra fancy checked | 12 00 |
| 7 | Butt plate | 50 |
| 8 | Butt plate screw | 05 |
| 9 | Cocking lever | 35 |
| 10 | Cocking level rod | $ 0 10 |
| 11 | Cocking lever rod pin | 05 |
| 12 | Extractor | 75 |
| 13 | Extractor screw | 05 |
| 14 | Extractor lever | 20 |
| 15 | Extractor lever pin (large) | 05 |
| 16 | Extractor lever pin (small) | 05 |
| 17 | Fore-end, wood | $ 1 50 |
| 18 | Fore-end, iron | 1 00 |
| 19 | Fore-end catch, complete | 1 10 |
| 20 | Fore-end hook | 60 |
| 21 | Fore-end hook spring | 10 |
| 22 | Fore-end hook pin | 05 |
| 23 | Fore-end hook screw (long) | 05 |
| 24 | Fore-end hook screw (short) | 05 |
| 25 | Front sight | 05 |
| 26 | Frame | 7 00 |
| 27 | Guard | 75 |
| 28 | Guard screw | 05 |
| 29 | Hammer (right) | 50 |
| 30 | Hammer (left) | 50 |
| 31 | Hammer screw | 10 |
| 32 | Locking bolt | 50 |
| 33 | Locking bolt screw | 05 |
| 34 | Main spring | 10 |
| 35 | Main spring plunger | 15 |
| 36 | Pistol grip cap | 25 |
| 37 | Pistol grip cap screw | 05 |
| 38 | Sear (right) | 40 |
| 39 | Sear (left) | 40 |
| 40 | Sear screw | 10 |
| 41 | Sear spring | 10 |
| 42 | Sear spring screw | 10 |
| 43 | Safety slide | 10 |
| 44 | Safety slide spring | 05 |
| 45 | Safety slide pin | 05 |
| 46 | Safety lever | 15 |
| 47 | Safety lever pin | 05 |
| 48 | Safety operating lever | 25 |
| 49 | Trigger (right) | 25 |
| 50 | Trigger (left) | 25 |
| 51 | Trigger spring | 10 |
| 52 | Trigger spring screw | 05 |
| 53 | Trigger pin | 05 |
| 54 | Trigger plate | 2 00 |
| 55 | Trigger plate screw (upper) | 05 |
| 56 | Trigger plate screw (lower) | 05 |
| 57 | Top snap lever | 75 |
| 58 | Top snap spring | 05 |
| 59 | Top snap screw | 10 |
| 60 | Top snap stud | 50 |
| 61 | Top snap plunger | 05 |

# Salinometer Thermometers and Hydrometers.

No. 981—Salinometer Thermometer.

No. 1983—Metal Hydrometers.

Code Lebrisha — Per Dozen

**No. 981**—Salinometer Thermometers, 8½ In. Heavy Brass Scale Sea Water Thermometer, with Cylindrical Guard over Tube and Spring at Base, . $18.00
Weight 6 lbs. Per Dozen.

Code Lebruno — Each

**No. 1983** Salinometer Hydrometer, for Sea Water in Marine Boilers, German Silver, Temperature 200 F., Graduation of Scale 0 to 5/32 deg., . $8.00
Weight ¾ lb. Each.

## Salinometer Pots.

Code Lecando — Each

**No. 90**—14 In. High, 2 In. Diam., Planished Copper, Wood Handle, . . . $4.00
Weight 1½ lbs. Each.

Code Lebwaare — Each

**No. 1934**—Salinometer, for Sea Water in Marine Boilers, Temperature 200° F. $1.00
Weight ¼ lb. Each.

The Salinometer, for determining the density of water in marine boilers, has for its 0, the point to which the instrument will sink in distilled water at 200° Fahrenheit. The division of the scale is based on 32 parts of water containing 4 parts of saline matter, and is marked 1/32d, 1/16ds, 3/32ds, 1/8ds. The word "Blow" is marked midway between 3/32ds and 4/32ds, indicating that, at that density the water should be withdrawn from the boiler and replaced by fresh water to prevent incrustation.

# Salinometer Thermometers and Hydrometers.

No. 981—Salinometer Thermometer.

No. 1983—Metal Hydrometers.

Code Lebrisha — Per Dozen

**No. 981**—Salinometer Thermometers, 8½ In. Heavy Brass Scale Sea Water Thermometer, with Cylindrical Guard over Tube and Spring at Base, . $18.00
Weight 6 lbs. Per Dozen.

Code Lebruno — Each

**No. 1983** Salinometer Hydrometer, for Sea Water in Marine Boilers, German Silver, Temperature 200 F., Graduation of Scale 0 to 5/32 deg., . $8.00
Weight ¾ lb. Each.

## Salinometer Pots.

Code Lecando — Each

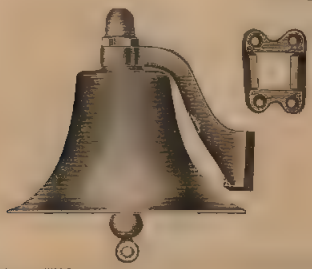
**No. 90**—14 In. High, 2 In. Diam., Planished Copper, Wood Handle, . . . $4.00
Weight 1½ lbs. Each.

Code Lebwaare — Each

**No. 1934**—Salinometer, for Sea Water in Marine Boilers, Temperature 200° F. $1.00
Weight ¼ lb. Each.

The Salinometer, for determining the density of water in marine boilers, has for its 0, the point to which the instrument will sink in distilled water at 200° Fahrenheit. The division of the scale is based on 32 parts of water containing 4 parts of saline matter, and is marked 1/32d, 1/16ds, 3/32ds, 1/8ds. The word "Blow" is marked midway between 3/32ds and 4/32ds, indicating that, at that density the water should be withdrawn from the boiler and replaced by fresh water to prevent incrustation.

# Ship Bells.



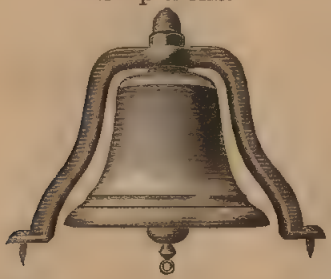
**No. 2** Merry Widow Pattern, Bell Metal, Polished, with Bracket.

| Diam., In., | 6 | 8 |
|---|---|---|
| Code, | Notomista | Notomys |
| Weight Each Net, lbs., | 4 | 5½ |
| Each, | $5.00 | 8.50 |

**No. 82** Bell Metal, Polished, with Bracket.

| Diam., In., | 6 | 8 | 10 |
|---|---|---|---|
| Code, | Notope | Notopede | Notorio |
| Weight Each Net, lbs., | 8 | 9½ | 10 |
| Each, | $9.00 | 15.00 | 28.50 |

# Ship Bells.



**No. 81**—Bell Metal, Polished, with Yoke.

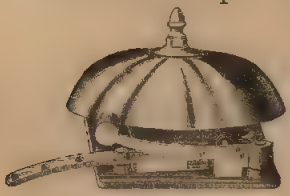
| Diam., In., | 8 | 10 |
|---|---|---|
| Code, | Notorals | Notozone |
| Weight Each Net, lbs., | 16 | 28 |
| Each, | $20.00 | 35.00 |

# Fish Trap Bells.

**No. 10**—Bell Metal, with Yoke.

| Diam., In., | 18 |
|---|---|
| Code, | Notzola |
| Weight Each Net, lbs., | 108 |
| Each, | $75.00 |

# Trip Gongs or Locomotive Bells.



**Polished Bell Metal.**

| Diam., In., | 3 | 4 | 5 | 6 |
|---|---|---|---|---|
| Code, | Noudles | Noulet | Nounize | Nourish |
| Weight Per Dozen, lbs., | 18 | 24 | 34 | 38 |
| Per Dozen, | $10.00 | 12.50 | 16.50 | 24.00 |

| Diam., In., | 8 | 10 | 12 |
|---|---|---|---|
| Code, | Nouroux | Nourrain | Nourri |
| Weight Per Dozen, lbs., | 85 | 126 | 198 |
| Per Dozen, | $46.00 | 84.00 | 150.00 |

All Bells 10 inches and larger have wood hammers.

# Marline Spikes.

Tempered Steel, Polished.

| Length, In., | 10 | 12 | 14 | 16 |
|---|---|---|---|---|
| Code. | Nothlos | Nothorum | Nothpreis | Nothqual |
| Weight Per Dozen, lbs., | 15 | 22 | 30 | 38 |
| Per Dozen, | $4.00 | 5.00 | 6.50 | 9.50 |

Half Dozen in a Box.

# Wire Rope Marline Spikes.

Code Nothstall
12 In., Polished Cast Steel Blade, Weight 17 lbs. Per Dozen. Per Dozen $16.00

Code Nothweg
14 In., Polished Cast Steel Blade, Weight 24 lbs. Per Dozen. 18.00

One Dozen in a Box.

# Sailmakers' Marline Spikes.

Polished Steel Blade, Wood Handle.

| No., | 1 |
|---|---|
| Code, | Nothzeit |
| Length, In., | 13 |
| Weight Each, lbs., | 1 |
| Each, | $3.00 |

# Hand Fids.

Polished, Seasoned Hickory.

| Nos., | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Code, | Notieren | Notificar | Notifico | Notified |
| Length, In., | 14 | 16 | 18½ | 20½ |
| Weight Each, lbs., | ¾ | ¾ | 1 | 1¼ |
| Each, | $1.00 | 1.20 | 1.50 | 2.00 |

# Sailmakers' Bench Hooks.

Code Notionis
No. 805—7 In. Long, with Flat End, Weight 18 lbs. Per Dozen. Per Dozen $15.00

Code Notitiam
No. 803—3½ In. Long, with Brass Swivel End, Weight 9 lbs. Per Dozen. Per Dozen $3.00

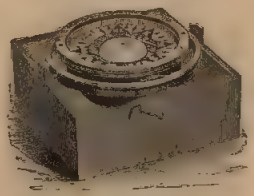
# Coppering Hammers.

Code Notobase
No. 3 Best Cast Steel, Weight 16 lbs. Per Dozen. Per Dozen $15.00

# Coppering Punches.

Code Notoletta
No. 1- 6 In., Cast Steel, Polished, Weight 6 lbs. Per Dozen. Per Dozen $9.00

# Marine Compasses.



## Colonial, Liquid.

Code Nuraghe — Each

**No. 52** With 2 In. Card, 4¼ In. Mahogany Box, . . . . . $10.00

Weight 5 lbs. Each.

Code Nuraldin

**No. 53** With 2¾ In. Card, 6½ In. Mahogany Box, . . . . . 15.00

Weight 7 lbs. Each.

Code Nurkschi

**No. 54**—With 4 In. Card, 7¼ In. Mahogany Box, . . . . . 25.00

Weight 8 lbs. Each.

## Ritchie's, Liquid.

Code Nutabar — Each

**No. 25**—With 4½ In. Card, 8¼ In. Mahogany Box, . . . . . $27.00

Weight 9½ lbs. Each.

Code Nutamina

**No. 26**—With 5 In. Card, 9½ In. Mahogany Box, . . . . . 31.00

Weight 13½ lbs. Each.

Code Nutaturo

**No. 27**—With 6¾ In. Card, 11 In. Mahogany Box, . . . . . 32.00

Weight 19½ lbs. Each.

Code Nutmeg

**No. 28**—With 7½ In. Card, 12 In. Mahogany Box, . . . . . 39.00

Weight 25 lbs. Each.

## Dry.

Code Nutmegger — Each

**No. 15**—2¾ In. Card, 5 In. Wood Box, . $4.00

Weight 3 lbs. Each.

Code Nutriamo

**No. 16**—3⅛ In. Card, 6 In. Wood Box, . 4.75

Weight 4 lbs. Each.

## Card.

Code Nutridas — Each

**No. 2541**—2 In. Card, Brass Case, Slip Cover, $1.25

Weight ½ lb. Each.

Code Mutrifico

**No. 2541**—3 In. Card, Brass Case, Slip Cover, 1.50

Weight ¾ lb. Each.

# Fog Horns.

**Lathrop's, All Bearings and Metal Parts Are of Hard Brass.**

Code Nuova — Each

Lathrop's Fog Horn, Boat Size, . . . . . $20.00
Weight 20 lbs. Each.

Code Nuovona

Lathrop's Fog Horn, Vessel Size, . . . . . 25.00
Weight 35 lbs. Each.

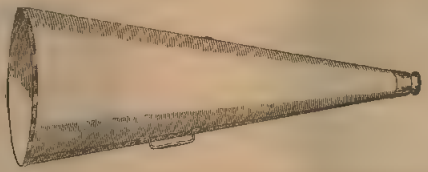
This excellent Horn is being rapidly adopted by all the leading Ship, Vessel and Yacht owners and also by the best known Steamship Companies, and is pronounced by all to be the best made, easiest movement and most durable of any Horn ever seen or used,

Code Numea — Each

No. 10 21 In. Long, 4½ In. Diam. at Bell End, with Wooden Mouth Piece and Reed, . . $2.50
Weight 1½ lbs. Each.

This Horn is especially adapted for use on Gasoline Launches, etc., under 15 tons, and according to the Law of Regulations will be passed by Local U. S. Customs Service.

# Megaphones.



**Waterproof, Mahogany Finish, Brass Trimmings, Nickel Plated.**

| Nos., | 1½ | 2 | 2½ | 3 |
|---|---|---|---|---|
| Code. | Numidas | Numidico | Numistro | Numitro |
| Length, In., | 22 | 30 | 34 | 40 |
| Weight Each, lbs., | 2 | 2¼ | 2½ | 3 |
| Each, | $4.00 | 5.00 | 6.00 | 7.00 |

When spoken through, the voice will be carried for a long distance. It is very useful on land or water, especially for Vessels, Race Track, Ball and Athletic Games, at Summer Residences in the country, or any place where a person may want to talk at a distance. When using the 'Phone as a receiver, place the ear at the mouthpiece and point the 'Phone in the direction from whence the sound proceeds, and it will be quite audible.

SCHWABACHER HARDWARE CO.

# Anchor and Bow Lights.

SCHWABACHER HARDWARE CO.

## Anchor or Riding.

Code Nubigene — **No. 204** Galvanized Iron, 4x4 In. Fresnel Globe, Extreme Height 13 In., Frame 10 In., No. 0 Convex Burner, ¾ In. Wick, . . . . . $ 4.50
Weight 6 lbs. Each, Net.

Code Nubilaux — **No. 205** Galvanized Iron, 6x6 In. Fresnel Globe, Extreme Height 17 In., Frame 12 In., No. 1 Convex Burner, ⅝ In. Wick, . . . . . 7.50
Weight 8 lbs. Each, Net.

Code Nubilous — **No. 206** Galvanized Iron, 8x8 In. Fresnel Globe, Extreme Height 24 In., Frame 14 In., No. 2 Convex Burner, 1 In. Wick, . . . . . 14.00
Weight 14 lbs. Each, Net.

### Extra Fresnel Globes for Anchor Lights.

| For Lights, Nos., | 204 | 205 | 206 |
|---|---|---|---|
| Code, | Nucalis | Nucellis | Nucsos |
| Size, In., | 4x4 | 6x6 | 8x8 |
| Each, | $2.00 | 4.00 | 5.00 |

### Extra Founts for Anchor Lights.

| For Lights, Nos., | 204 | 205 | 206 |
|---|---|---|---|
| Code, | Nucium | Nuclebat | Nuclebunt |
| Each, | $0.50 | .75 | 1.00 |

## Bow or Mast Head.

Code Nudares — **No. 14**—Galvanized Iron, 4x4 In. Fresnel Globe, Extreme Height 12 In., Frame 8 In., No. 0 Convex Burner, ¾ In. Wick, . . . . . $ 6.75
Weight 4 lbs. Each Net.

Code Nudation — **No. 114** —Brass, Otherwise Same as No. 14, 8.00
Weight 5 lbs. Each Net.

Code Nudatos — **No. 12**—Galvanized Iron, 6x6 In. Fresnel Globe, Extreme Height 18 In., Frame 11 In., No. 1 Convex Burner, ⅝ In. Wick, . . . . . 7.50
Weight 7½ lbs. Each Net.

Code Nudiceps — **No. 112**—Brass, Otherwise Same as No. 16, 13.50
Weight 8½ lbs. Each Net.

Code Nudillo — **No. 9**—Galvanized Iron, 8x8 In. Fresnel Globe, Extreme Height 20 In., Frame 13 In., No. 2 Convex Burner, 1 In. Wick, . . . . . 14.00
Weight 12 lbs. Each Net.

### Extra Fresnel Globes for Bow Lights.

| For Lights, Nos., | 14 | 12 | 9 |
|---|---|---|---|
| Code, | Nuesse | Nuestera | Nuestro |
| Size, In., | 4x4 | 6x6 | 8x8 |
| Each, | $1.50 | 3.00 | 4.00 |

### Extra Founts for Bow Lights.

| For Lights, Nos., | 14 | 12 | 9 |
|---|---|---|---|
| Code, | Nugasso | Nugacity | Nugarer |
| Each, | $0.75 | 1.00 | 1.00 |

# Signal Lights.

Code Nugolato
**No. 209**—Galvanized Iron, Ruby Globe, 10 In. Diam., Height 20 In., No. 2 Convex Burner, 1 In. Wick, Weight 9 lbs. Each. — Each $9.00

Code Nuirait
**Extra Ruby Globes**, for No. 209 Signal Lights, Weight 4 lbs. Each Net. — 5.50

## Combination Launch Lights.

Code Nulla
**No. 2**—Galvanized Iron, Combination Lights, Extreme Height 12 In., Height of Frame 7 In., Width of Base 8½ In., Shows White, Green and Red, Green and Red Lights 5x6 In., Bulls-Eye White, Weight 4½ lbs. Each Net. — Each $6.00

Code Nullessa
**No. 12** Brass, Otherwise Same as No. 2, — 7.50

## Binnacle Lights.

Code Nullos
**No. 2**—Brass, 3x4½ In. Glass, Extreme Height 8½ In., Height of Frame 5½ In., Width of Base 4¼ In., No. 1 Convex Burner, ⅝ In. Wick, Weight 2 lbs. Each Net. — Each $4.50

Code Numantin
**No. 3**—Brass, 3¾x5¼ In. Glass, Extreme Height 10 In., Height of Frame 6½ In., Width of Base 5¼ In., No. 1 Convex Burner, ⅝ In. Wick, Weight 2½ lbs. Each Net. — 7.00

# Ship Side Lights.

Nos. 8 and 18 Nos. 6 and 16 No. 5 Nos. 3 and 4

Code Noxialen — Per Pair

**No. 8** Galvanized Iron, Plain Glass 4¼x4¾ In., Extreme Height 10 In., Height of Frame 7 In., No. 0 Convex Burner, ⅜ In. Wick, . . . . . $ 5.75

Weight 4½ lbs. Per Pair, Net.

Code Noxlo

**No. 18**—Brass, Fresnel Glass 4¼x4¾ In., Extreme Height 13 In., Height of Frame 7¼ In., No. 0 Convex Burner, ⅜ In. Wick, . . . . . 12.00

Weight 5 lbs. Per Pair, Net.

Code Noxitado

**No. 6** Galvanized Iron, Plain Glass 4¾x5¾ In., Extreme Height 12 In., Height of Frame 7 In., Body 6 In., No. 1 Convex Burner, ⅞ In. Wick, . . . . . 8.25

Weight 7½ lbs. Per Pair, Net.

Code Noyade

**No. 16** Brass, Fresnel Glass 4¾x5¾ In., Extreme Height 14½ In., Height of Frame 9½ In., No. 1 Convex Burner, ⅞ In. Wick, . . . . . 15.00

Weight 9 lbs. Per Pair, Net.

Code Noyassen

**No. 5**—Galvanized Iron, Fresnel Glass 4¾x5¾ In., Extreme Height 12 In., Height of Frame 7 In., No. 1 Convex Burner, ⅞ In. Wick, . . . . . 10.50

Weight 10 lbs. Per Pair, Net.

Code Noyeurs

**No. 4** Galvanized Iron, Fresnel Glass 6¾x6¾ In., Extreme Height 16 In., Height of Frame 11 In., No. 1 Convex Burner, ⅞ In. Wick, . . . . . 15.00

Weight 17 lbs. Per Pair, Net.

Code Noyure

**No. 3** Galvanized Iron, Fresnel Glass 7½x10 In., Extreme Height 22 In., Height of Frame 14 In., No. 2 Convex Burner, 1 In. Wick, . . . . . 30.00

Weight 30 lbs. Per Pair, Net.

**Extra Founts for Side Ship Lights.**

| For Lights, Nos., | 3 | 4 | 5 | 6 | 8 |
|---|---|---|---|---|---|
| Code, | Nuaison | Nuancait | Nuance | Nuancier | Nuancoir |
| Each, | $1.50 | 1.00 | 1.00 | 1.00 | .75 |

# Aneroid Barometers.

**Short & Mason's.**

Code Lebenstag — Each

**No. 2201** 5 In. Polished Brass Case, Closed Porcelain Dial, with Thermometer, . $16.00
Weight 3 lbs. Each.

Code Lebenslig

**No. 3551**—3½ In. Polished Brass Case, Open Dial, without Thermometer, . . . 9.00
Weight 1½ lbs. Each.

Code Lebidon — Each

**No. 3571** 4 In. Face, Mounted in Carved Oak Frame 7 In. Diam., . . . $12.00
Weight 2½ lbs. Each.

**Short & Mason's.**

Code Lebhaft — Each

**No. 2203** 5 In. Polished Brass Case, First Quality, Open Porcelain Dial, with Thermometer, . . . . . $20.50
Weight 3 lbs. Each.

Code Lebios **Short & Mason's, Marine.** — Each

**No. 2250**—5 In. Polished Brass Case, Open, Engraved Metal Silvered Dial, Especially Finished, . . . . $30.00
Weight 2½ lbs. Each.

This Barometer is especially adapted for Marine use, compensated for Temperature and approved by U. S. Naval Observatory.

# Thermometers.

**Dry Kiln or Coal Bunker.**

Code Lehmsaar — Each

No. 715—10 In. Brass Cylindrical Case, Scale 0 to 220° F., . . . . . $11.25
Weight 2½ lbs. Each.

Especially constructed for use in dry kilns and all other purposes where strong case construction is required to eliminate as far as possible danger of breakage in use. Provided at lower end with a rubber buffer to prevent breaking. Chain at upper end permits of dropping thermometer through top of kiln or pipe to any depth.

No. 400

No. 2000BHM.

**For Steam and Hot Water Heating.**

Code Lebracho — Each

No. 400—11½ In., Cast Iron Case, Nickel Plated Black Enameled Face, White Letters, Straight Stem, Threaded for ½ In. Iron Pipe Thread, . . . . $2.00
Weight 6 lbs. Each.

This Thermometer is adapted for use in connection with steam and hot water plants, also in hot wells on steamships.

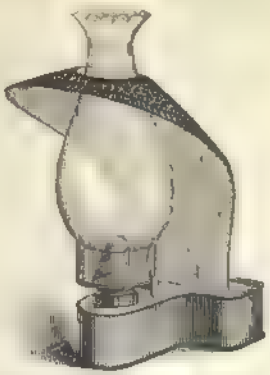
**Hohmann & Maurer's, for Canning Kettles or Retorts**

Code Lebrei — Each

No. 2000BHM —9 In. Cast Bronze Scale Case, Black Enameled Face, White Letters, . . . . . $15.00
Weight 4½ lbs. Each.

For use in fish and fruit canneries and used on retorts or kettles.

# Side Lamps.

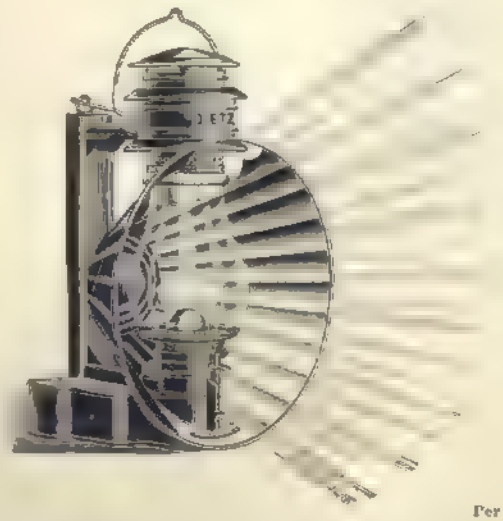


No. 5 Electric, Japanned, Tin Fount, Tin Reflector, No. 2, 1 in. Burner, with Chimney . Per Dozen. $6.50

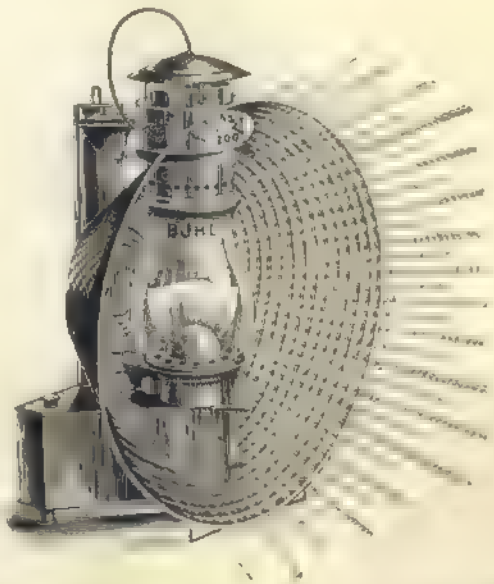
No. 8—Model, Japanned, Glass Fount, Corrugated Tin Reflector, No. 2, 1 in. Burner, with Chimney, Per Dozen. $5.50

No. 21—Brilliant, Japanned, Tin Fount, Corrugated Tin Reflector, No. 2, 1 in. Burner, with Chimney, . . . . . Per Dozen $6.50

# Tubular Search Lights.



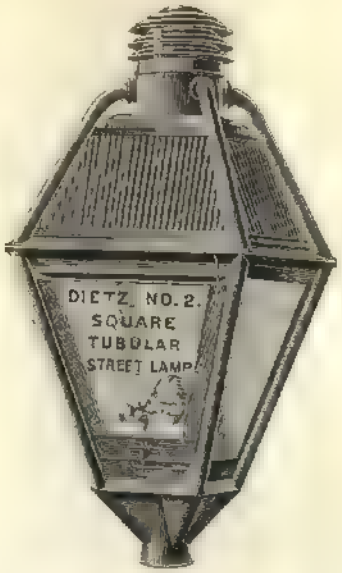

No. 30—Dietz, Japanned, Bull's Eye Lens, Revolving Tin Reflector, No. 2, 1 in. Burner, No. 0 Globe, Per Dozen. $30.00
Quarter Dozen in a Case.




No. 100 Buhl Japanned, 6 in. Nickel Plated Reflector, No. 2, 1 in. Burner, No. 0 Globe, . Per Dozen $33.00
Half Dozen in a Case.

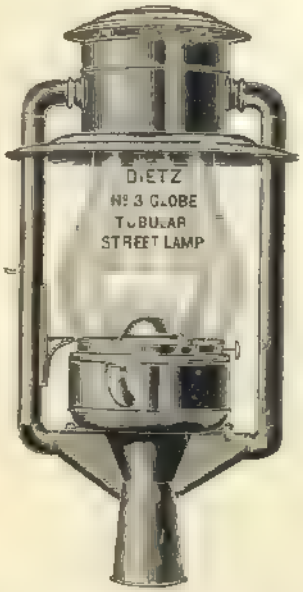
# Street Lamps.

**No. 4** Corporation, Painted Green, No. 2, 1 in Burner, No. 2 Sun Chimney, Glass Fount, $4 00




Each

**No. 2** Square Tubular, Painted Green No 3, 1½ in Burner, Automatic Extinguisher, . . $8.00




Each.

**No. 3**—Globe. Tubular, Painted Green, No. 3, 1½ in. Burner, No 3 Globe. Automatic Extinguisher, $6.00

Each

**No. 03**—Crystal, Tubular, Painted Green, No. 3, 1½ in Burner, No 3 Globe, Glass Fount. Automatic Extinguisher, $6.50

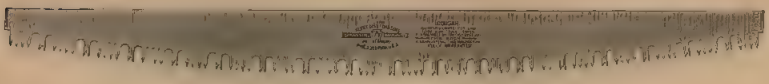
Each

**No. 158**—Rochester. Tubular, Painted Green. No. 2 Circular Burner. No 3 Globe, . . . $7.50

One in a Box.

# Cross Cut Saws.

## Disston's.



### Cougar.

The Cougar Saw is built to meet the requirements of Pacific Coast Timber, the peculiarities of the fibre of the different woods and methods used in logging. Through the Special Process of Grinding perfectly even thickness on cutting edge and a uniform thickness through the body gives the maximum amount of clearance of all parts of the blade without sacrifice to its elasticity and stiffness.

Thin Back, 13 Gauge on Tooth Edge, 17 Gauge on Back Edge, Four Cutting Teeth to Each Raker, Toothed to Ends.

| Length, Ft., | 6 | 6½ | 7 | 7½ |
|---|---|---|---|---|
| Code, | Feline | Felinte | Feliptilo | Felirent |
| Weight Each, lbs., | 7¾ | 8¾ | 10¼ | 11 |
| Each, | $7.50 | 8.13 | 8.75 | 9.38 |

### Cougar Falling.

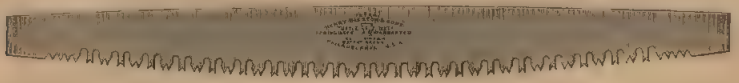
Thin Back, 13 Gauge on Tooth Edge, 17 Gauge on Back Edge, Four Cutting Teeth to Each Raker, Toothed to Ends.

| Length, Ft., | 7 | 7½ | 8 | 8½ | 9 |
|---|---|---|---|---|---|
| Code, | Fellable | Fellah | Fellahin | Fellator | Fellatrix |
| Weight Each, lbs., | 8½ | 9¼ | 9¾ | 11½ | 12¾ |
| Each, | $8.75 | 9.38 | 10.00 | 11.53 | 12.15 |

### Nevada

Thin Back; 13 Gauge on Tooth Edge, 17 Gauge on Back Edge, Four Cutting Teeth to Each Raker, Toothed to Ends.

| Length, Ft., | 6 | 6½ | 7 | 7½ |
|---|---|---|---|---|
| Code, | Felleos | Fellgar | Felldoel | Fellfini |
| Weight Each, lbs., | 7¾ | 8¾ | 10¼ | 11 |
| Each, | $6.00 | 6.50 | 7.00 | 7.50 |



### Tuttle Tooth.

Thin Back, 14 Gauge on Tooth Edge, 18 Gauge on Back Edge, Two Cutting Teeth to Each Raker.

| Length, Ft., | 5½ | 6 | 6½ |
|---|---|---|---|
| Code, | Felsius | Felskluft | Felskopf |
| Weight Each, lbs., | 6½ | 8 | 9¼ |
| Each, | $3.00 | 3.60 | 3.90 |

SCHWABACHER HARDWARE CO.

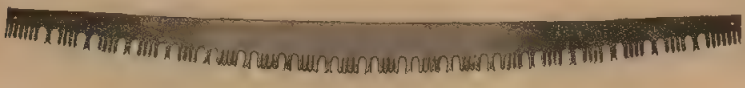
# Cross Cut Saws.

Simonds'.

No. 503—Simonds' Royal Chinook, Crescent Ground.

13 Gauge on Tooth Edge, 18 Gauge on Back, Four Cutting Teeth to Each Raker.

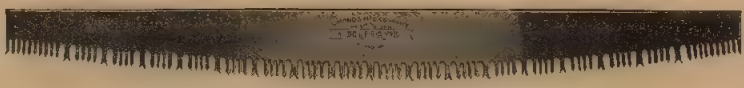
| Length, Ft., | 6 | 6½ | 7 | 7½ | 8 |
|---|---|---|---|---|---|
| Code, | Feldgut | Feldhase | Feldhen | Feldhirt | Feldhols |
| Weight Each, lbs., | 7¼ | 7½ | 8 | 9¼ | 9¾ |
| Each, | $6.00 | 6.50 | 7.00 | 7.50 | 8.00 |



No. 513—Simonds' Royal Chinook Falling, Crescent Ground.

13 Gauge on Tooth Edge, 18 Gauge on Back, Four Cutting Teeth to Each Raker.

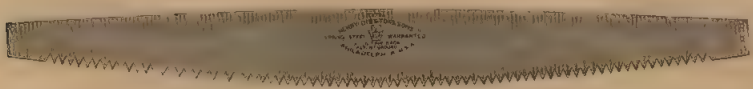
| Length, Ft., | 7 | 7½ | 8 | 8½ | 9 |
|---|---|---|---|---|---|
| Code, | Feldhuhn | Feldhund | Feldlied | Feldlinse | Feldmark |
| Weight Each, lbs., | 8¾ | 9¼ | 9¾ | 11½ | 12¾ |
| Each, | $7.00 | 7.50 | 8.00 | 10.20 | 12.15 |



No. 520—Simonds' Chinook, Crescent Ground.

13 Gauge on Tooth Edge, 17 Gauge on Back, Four Cutting Teeth to Each Raker.

| Length, Ft., | 6 | 6½ | 7 | 7½ | 8 |
|---|---|---|---|---|---|
| Code, | Feldmohn | Feldname | Feldnelke | Feldobst | Feldofen |
| Weight Each, lbs., | 7¼ | 7½ | 8 | 9¼ | 9¾ |
| Each, | $4.80 | 5.20 | 5.60 | 6.00 | 6.40 |



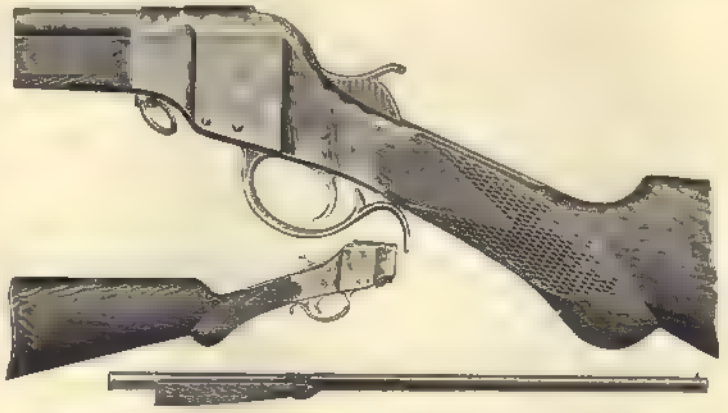
Tenon.

Thin Back, 14 Gauge on Tooth Edge, 18 Gauge on Back Edge.

| Length, Ft., | 4½ | 5 | 5½ |
|---|---|---|---|
| Code, | Felsuper | Felswand | Feltere |
| Weight Each, lbs., | 4¼ | 5¾ | 7¼ |
| Each, | $2.84 | 3.15 | 3.46 |

# Single Barrel Shot Guns.

Hopkins & Allen Arms Co.'s.



**H. & A. Automatic Ejector.**

Lever Action, Rebounding Lock, Solid Breech Block Checkered Pistol Grip, Walnut Stock, Rubber Butt Plate, Choke Bored

| | Each |
|---|---|
| **No. 70**—12 Gauge, 30 in. Blued Steel Barrel, Weight 5½ Lbs., | $10.00 |
| **No. 72**—16 Gauge, 30 in. Blued Steel Barrel, Weight 5½ Lbs., | 10.00 |
| **No. 74**—20 Gauge, 30 in. Blued Steel Barrel, Weight 5 Lbs., | 10.00 |

Iver Johnson.

**Top Snap Ejector.**

Top Lever Action, Rebounding Lock, Pistol Grip, Case Hardened Frame, Walnut Stock, Rubber Butt Plate, Choke Bored

| | Each |
|---|---|
| **No. 150**—12 Gauge, 30 and 32 in. Blued Steel Barrel, Weight 6½ Lbs., | $9.00 |
| **No. 155**—16 Gauge, 30 in. Blued Steel Barrel, Weight 6½ Lbs., | 9.00 |

**Semi-Hammerless, Automatic Ejector.**

Top Lever Action, Rebounding Lock, Pistol Grip, Case Hardened Frame, Walnut Stock, Rubber Butt Plate, Trigger Action is Opened, Closed and Fired without changing position of hand.

| | Each |
|---|---|
| **No. 15** —12 Gauge, 30 and 32 in. Blued Steel Barrel, Weight 6½ Lbs., | $11.00 |
| **No. 15⅛**—16 Gauge, 30 in Blued Steel Barrel, Weight 6½ Lbs., | 11.00 |

**Iver Johnson Ejector Guns can be made Non-Ejector by tightening Set Screw under Barrel.**

# Single Shot Rifles.

Winchester.

**Plain Trigger, Steel Barrel, Plain Walnut Stock.**

| | | Each |
|---|---|---|
| No. 270 | 22 Caliber Short Rim Fire Cartridge, 24 in Octagon Barrel, Weight about 6½ Lbs., | $15 00 |
| No. 271 | 22 Caliber Long Rim Fire Cartridge, 24 in Octagon Barrel, Weight about 6½ Lbs., | 15 00 |
| No. 272 | 25-20 Caliber Center Fire Cartridge, 28 in Octagon Barrel, Weight about 7 Lbs., | 15 00 |
| No. 275 | 32 Caliber Long Rim Fire Cartridge, 26 in Octagon Barrel, Weight about 6¾ Lbs., | 15 00 |
| No. 276 | 32-40 Caliber Center Fire Cartridge, 30 in Octagon Barrel, Weight about 10 Lbs., | 15 00 |
| No. 277 | 22 Caliber Center Fire Cartridge, 26 in. Octagon Barrel, Weight about 7 Lbs., | 15 00 |
| No. 280 | 32 73 Caliber Center Fire Cartridge, 28 in. Octagon Barrel, Weight about 8 Lbs., | 15 00 |
| No. 284 | 38-55 Caliber Center Fire Cartridge, 30 in Octagon Barrel, Weight about 9½ Lbs., | 15 00 |
| No. 289 | 45-90 Caliber Center Fire Cartridge, 30 in Octagon Barrel, Weight about 9 Lbs., | 15 00 |

All 22 and 25 Caliber Single Shot Rifles will be furnished with a Brass Cleaning Rod, other Calibers with a Slotted Hickory Rod.

# Repeating Rifles.

Winchester.

**Model 1873.**

Plain Trigger, Steel Barrel, Full Magazine

| | | Each |
|---|---|---|
| No. 200 | 32 Caliber Center Fire Cartridge, 24 in Round Barrel, 15 Shots, Weight about 8½ Lbs., | $18 00 |
| No. 201 | 32 Caliber Center Fire Cartridge, 24 in Octagon Barrel, 15 Shots, Weight about 8½ Lbs., | 19 50 |
| No. 202 | 38 Caliber Center Fire Cartridge, 24 in. Round Barrel, 15 Shots, Weight about 8¼ Lbs., | 18 00 |
| No. 203 | 38 Caliber Center Fire Cartridge, 24 in Octagon Barrel, 15 Shots, Weight about 8½ Lbs., | 19 50 |
| No. 203 | 38 Caliber Center Fire Cartridge, 26 in Octagon Barrel, 15 Shots, Weight about 9 Lbs., | 21 50 |
| No. 204 | 44 Caliber Center Fire Cartridge, 24 in. Round Barrel, 15 Shots, Weight about 8¼ Lbs., | 18 00 |
| No. 205 | 44 Caliber Center Fire Cartridge, 24 in Octagon Barrel, 15 Shots, Weight about 8½ Lbs., | 19 50 |
| No. 205 | 44 Caliber Center Fire Cartridge, 26 in Octagon Barrel, 15 Shots, Weight about 9 Lbs., | 21 50 |

# Sling Pulleys.

| | Each |
|---|---|
| **No. 65** Malleable Iron, Japanned. | $3.00 |

To be used with Leader Hay Carrier No matter how large or how small the amount of hay is in the Wagon Sling, it will lock at any place. When the knob of Sling Pulley enters the Hay Carrier, the entire weight of hay is on this knob and draws the lock against the rope between the two pulleys, and when load is dumped and Hay Carrier is returned and strikes the stop block, the knob drops and the Sling Pulley is unlocked and is ready for another load

## Rope Hitches.

| | Per Dozen. |
|---|---|
| **No. 9** Malleable Iron, Japanned, . . | $3.00 |

## Floor Hooks.

| | Per Dozen |
|---|---|
| **No. 1**—⅝ in. Wrought Iron. | $0.80 |
| **No. 2**—½ in. Wrought Iron. | 1 00 |

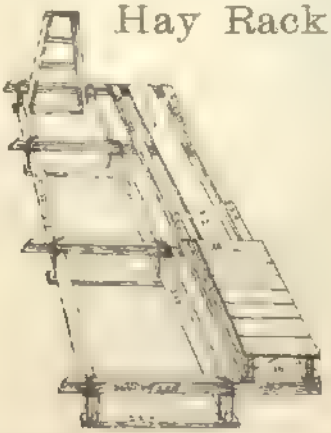
## Hanging Hooks.

| | Per Dozen |
|---|---|
| **No. 14**—⅜x14 in., Wrought Iron, | $1.00 |
| **No. 16** ⅜x16 in., Wrought Iron, . . . . . | 1.10 |
| **No. 18**—⅜x18 in., Wrought Iron, . | 1.20 |

Measurement given is from end to center of bend

| | Per Dozen |
|---|---|
| **No. 10**—Jointed. Wrought Iron. | $1.75 |

## Hay Rack Brackets and Clamps.



| | Per Set |
|---|---|
| **No. 1** Wenzelmann's, Steel Clamps, 14 in. Long, Steel Clips and Washers, | $2.00 |
| **No. 2**— Wenzelmann's, Steel Clamps, 16 in. Long, Steel Clips and Washers, . . . | 2.10 |

32 Pieces to a Set.

With Wenzelmann's Brackets and Clamps any farmer can erect the strongest and neatest Hay Rack for his wagon without boring holes through its main frame work: and much better than the old way.

# Hay Fork Pulleys.

Per Dozen.

**No. 10** 5 in. Iron Wheel, Malleable Iron Frame, Japanned, Swivel Eye, . . . . $3.00

Per Dozen.

**No. 20** 5½ in Wood Wheel, Malleable Iron Frame, Japanned, Swivel Eye, . $2.80

Per Dozen.

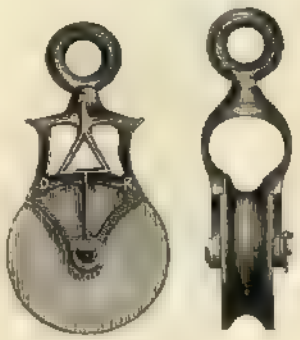
**No. 45** 5 in Wood Wheel, Self Oiling Wood Frame, Iron Strapped, Swivel Eye, . $4.00

Per Dozen.

**No. 50** 4¼x1½ in Iron Wheel, Self Oiling, Steel Shell, Japanned, Wrought Swivel Eye, . $4 50

Per Dozen.

**No. 30** 5½ in Wood Wheel, Knot Passing, Steel Frame Japanned, Swivel Eye. $3.25



Per Dozen.

**No. 25** 5¼ in Wood Wheel, Self Oiling, Knot Passing, Malleable Iron Frame Japanned, Swivel Eye, . . . . . $3.20

# SLEICHS.

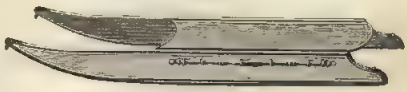
**Boy's Sled, No. 1.**
Length 28 inches, width 10 inches, with hand holes.
Per dozen.....4.00

**Boy's Sled, No. 2.**
Length 33 inches, width 10 inches, with hand holes.
Per dozen.....4.70

**Boy's Sled, No. 3.**
Length 37 inches, width 10 inches, with hand holes.
Per dozen..... .....5.10

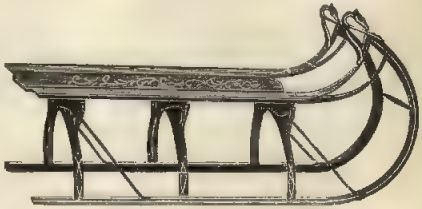
**"Victor."**
Length 33 inches, width 10½ inches, with hand holes. Top painted, beautifully striped, with round spring shoes.
Per dozen .....8.80

**"Sport."**
The "Sport" is strongly made of best hardwood, tops painted, sides varnished on the wood, and ornamented with new designs. Round spring shoes. Length 40 inches, width 10½ inches.
Per dozen.....12.10



**"Racer."**
A large, strong and beautiful sled, with fancy turned side rails and heavy round spring shoes. Length 44 inches, width 15 inches.
Per dozen.....14.50

**"Canada."**
Top painted, striped and ornamented. Frame-work varnished on the wood. Length 32 inches, width 13 inches.
Per dozen..... 11 15



**"Stanley."**
Well braced. Nicely painted, striped and ornamented. Swan necks bronzed. Length 38 inches, width 15 inches.
Per dozen.. 28 00

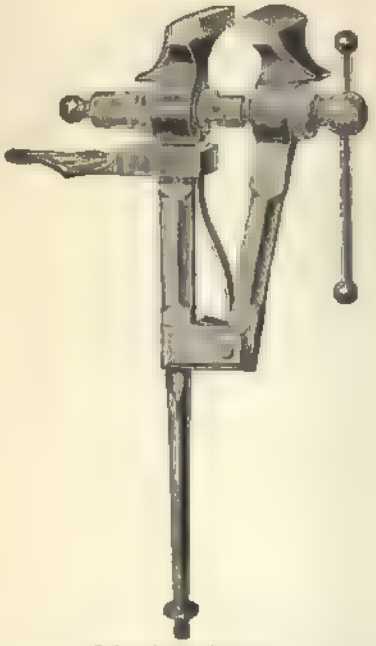
**"Popular."**
Has reversible handles to push or draw. Body painted, frame-work varnished on the wood, nicely striped throughout. Well finished.

| | | Per dozen |
|---|---|---|
| No. 1, | Length of Body, 30 inches; 6 inches deep at narrow part, | 24.20 |
| " 2, | Large box, on **Nonpareil** Sleigh..... ..... | 32.40 |

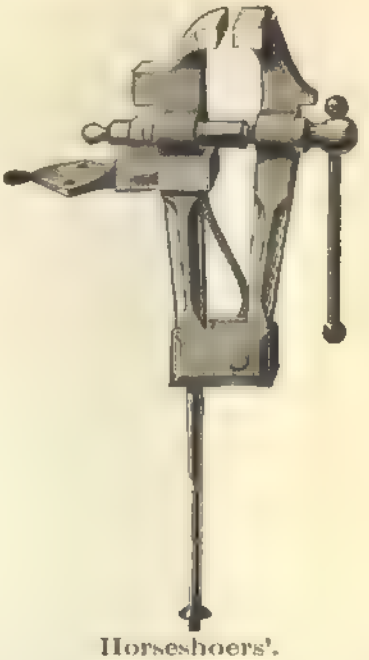
**"Nonpareil."**
Nicely painted, striped and ornamented.
Length, 36 inches, width 13 inches.
Per dozen . ..... 20.00

H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

# Solid Box Vises.



Blacksmiths'.



Horseshoers'.

**Blacksmiths', Wrought Steel.**

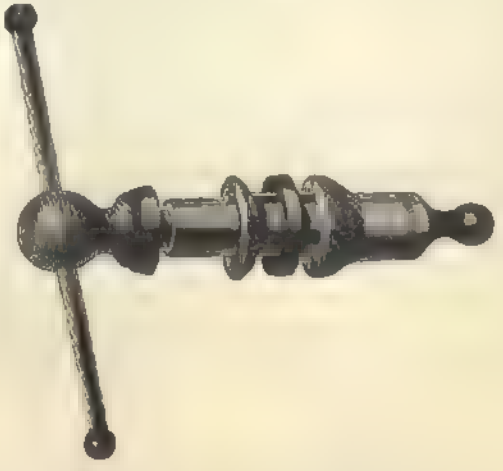
| Nos. and Weights, | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Size of Jaws, Inches, | 3¾ | 4 | 4¼ | 4½ | 4¾ | 5 | 5 | 5¼ | 5½ | 5¾ | 5¾ |
| Each, . . | $10.00 | 10.50 | 11.00 | 11 50 | 12.00 | 13.00 | 14.00 | 15.00 | 16 00 | 17 50 | 18.50 |

| Nos. and Weights, | 90 | 95 | 100 | 110 | 120 | 130 | 140 | 150 |
|---|---|---|---|---|---|---|---|---|
| Size of Jaws, Inches, | 5¼ | 5¾ | 6 | 6 | 6⅛ | 6½ | 7 | 7 |
| Each, . . | $20 00 | 21.00 | 22.00 | 24.00 | 26.00 | 29.00 | 33.00 | 36 00 |

**Horseshoers', Wrought Steel.**

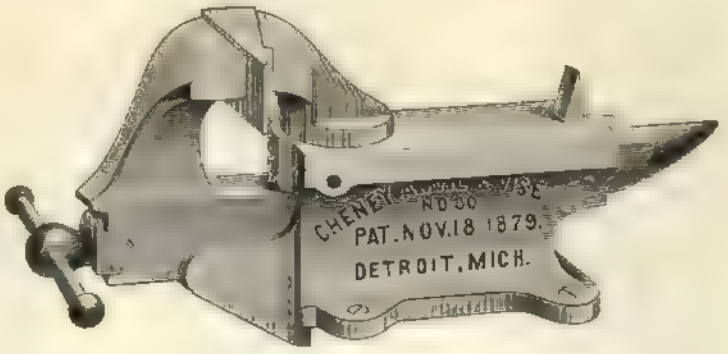
| | | Each. |
|---|---|---|
| **No. 65** | 6 in. Jaws, Weight 65 Lbs., | $19.50 |
| **No. 70** | 6½ in Jaws, Weight 70 Lbs | 21 00 |

# Solid Vise Boxes and Screws.



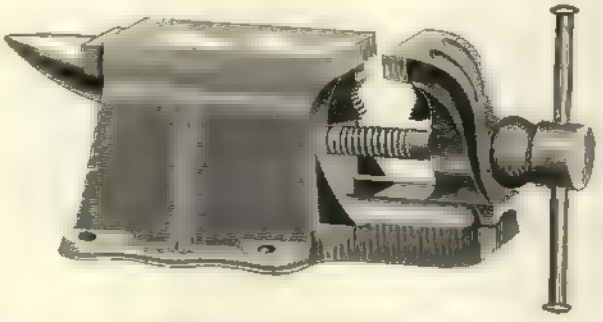
| | | | Each. |
|---|---|---|---|
| **No. 1** | Wrought Steel, for Vises Nos 35 to 40 | Diameter of Screw 1 in., | $3 50 |
| **No. 1¼** | Wrought Steel, for Vises Nos. 45 to 55, | Diameter of Screw 1½ in., | 4 00 |
| **No. 2** | Wrought Steel, for Vises Nos 60 to 75 | Diameter of Screw 1¾ in | 4 00 |
| **No. 3** | Wrought Steel, for Vises Nos. 80 to 95, | Diameter of Screw 1⅞ in | 4 50 |
| **No. 4** | Wrought Steel, for Vises Nos 100 to 150, | Diameter of Screw 1¾ in., . . | 6 50 |

# Vises and Anvils Combined.




**Cheney's, Chilled Face Anvil, Cast Steel Vise Jaws.**

| | | Each |
|---|---|---|
| **No. 10** | 2½ in. Jaws, Opens 3 in. Face of Anvil 4½x2 in., Weight 9 Lbs., | $3.50 |
| **No. 20** | 3½ in Jaws, Opens 4 in. Face of Anvil 6½x3 in. Weight 25 Lbs., | 4.50 |
| **No. 30** | 4 in. Jaws, Opens 5 in Face of Anvil 8 x3½ in., Weight 35 Lbs., | 5 50 |
| **No. 40** | 4½ in. Jaws, Opens 6 in. Face of Anvil 8½x4 in., Weight 50 Lbs., | 6.50 |

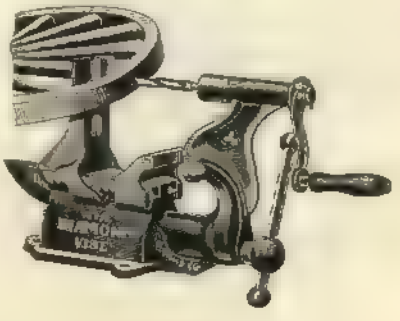


**Austin's, Hardened Face Anvil, Hardened Vise and Pipe Jaws.**

| | | Each |
|---|---|---|
| **No. 3** | 3 in. Jaws, Opens 5 in., Face of Anvil, 7x3 in., Weight 33 Lbs., | $2 50 |

**Diamond.**

| | | Each |
|---|---|---|
| **No. 75** | 4 in. Jaws, Opens 12 in., Face of Anvil, 7x3 in., Weight 38 Lbs. | $3.00 |



**Diamond, with Drill Attachment.**

| | | Each |
|---|---|---|
| **No. 78** | 4 in. Jaws, Opens 12 in., Face of Anvil, 7x3 in., Weight 51 Lbs., with Drill Attachment, | $5 00 |

Those Vises are very convenient to Farmers as well as Mechanics, as they are adapted to a larger range of Work than other Vises They can also be successfully used as Pipe Vises, holding firmly any Pipe up to 2 inches.

# Spring Balances.

**Frary's.**

**Round, Japanned, with Hook.**

| | Per Dozen. |
|---|---|
| No. 70—Weighs 25 Lbs. by ¼ Lb., | $4.00 |

Half Dozen in a Box.

**Pelouse.**

**Straight, Brass Front, with Hook.**

| | Per Dozen |
|---|---|
| No. 50—Weighs 50 Lbs. by ½ Lb., | $ 8.00 |
| No. 100 Weighs 100 Lbs by 1 Lb., | 22.00 |
| No. 150—Weighs 150 Lbs. by 1 Lb., | 28.00 |
| No. 210 Weighs 210 Lbs. by 2 Lb., | 36.00 |

**P. S. & W. Co.'s.**

**Straight, Brass Front, with Hook.**

| | Per Dozen |
|---|---|
| No. 40 Extra Heavy, Weighs 25 Lbs. by ¼ Lb., | $1.75 |
| No. 50—Extra Heavy, Weighs 25 Lbs by ¼ Lb., Extra Finish, | 2.75 |

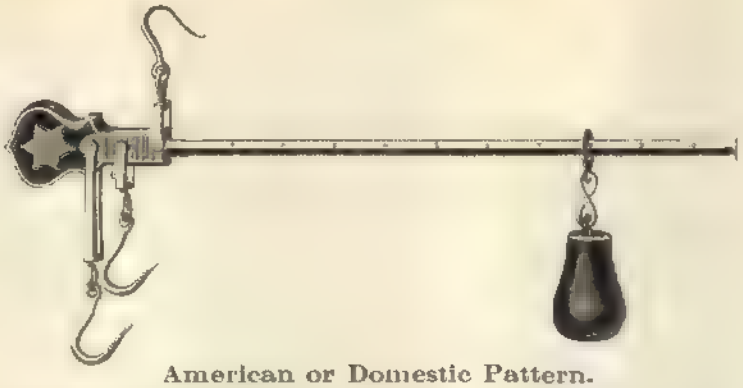
**Frary's.**

**Straight, Brass Front, with Hook.**

| | Per Dozen |
|---|---|
| No. 050 Light, Weighs 25 Lbs. by ¼ Lb., | $1 60 |
| No. 51—Light, Weighs 50 Lbs. by 1 Lb., | 3 00 |
| No. 81—Heavy, Weighs 25 Lbs. by ¼ Lb., | 4 00 |
| No. 82—Heavy, Weighs 30 Lbs by ½ Lb., | 5 00 |
| No. 84—Extra Heavy, Weighs 50 Lbs by 1 Lb., | 8.00 |

No. 050, One Dozen; No. 84, Quarter Dozen; All Others Half Dozen in a Box

# Steelyards.



**American or Domestic Pattern.**

Steel Bar, Balanced Head and Stop. Head and Poise Painted Black

| Pounds, | 50 | 100 | 150 | 200 | 250 | 300 |
|---|---|---|---|---|---|---|
| Per Dozen, | $6.00 | 7.00 | 9.00 | 10.00 | 11.00 | 12 00 |

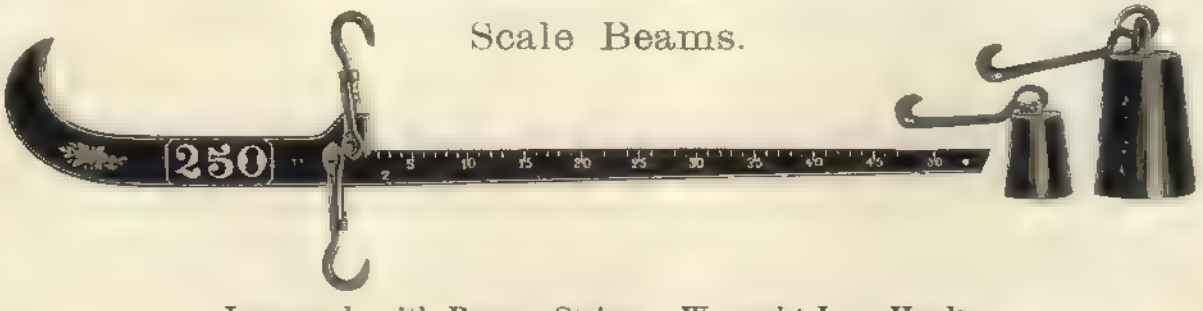
**Excelsior, Farmers' Pattern.**

Balanced Head and Stop. Head and Poise Painted Red

| Pounds, | 50 | 100 | 150 | 200 | 250 | 300 |
|---|---|---|---|---|---|---|
| Per Dozen, | $9.00 | 10.00 | 12.00 | 15.00 | 18 00 | 21 00 |

Half Dozen in a Case.

# Scale Beams.



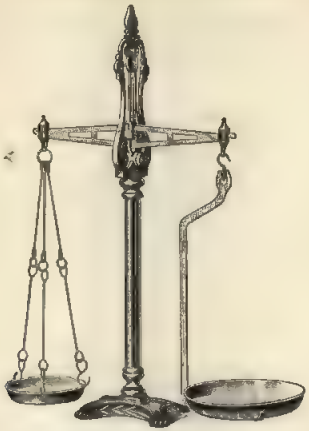

**Japanned, with Bronze Stripes. Wrought Iron Hooks.**

| Pounds, | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 1000 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Poises. Weight, Lbs., | 1 and 4 | 2 and 8 | 2 and 8 | 4 and 8 | 3 and 12 | 3 and 12 | 4 and 16 | 8 and 16 | 5 and 20 | 6 and 24 | 8 and 32 |
| Each. | $1 60 | 1 90 | 2.10 | 2.50 | 2.90 | 3.20 | 3 50 | 4.00 | 4.66 | 5.30 | 6.66 |

**Extra Poises.**

| Weight, Pounds, | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 12 | 16 | 20 | 24 | 32 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Each. | $0 25 | .30 | .40 | .50 | .60 | .70 | .85 | 1.10 | 1.50 | 1.70 | 2.40 | 2.90 |

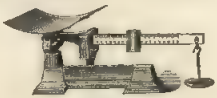
## "STANDARD" SCALES.



| | No. | Capacity. | Height. | | Price | Inspection |
|---|---|---|---|---|---|---|
| Tea Scale, | 160, | 7 lbs. | 30 in. | ..... | 22.00 | .30 |
| | 161, | 12 " | 32 " | ..... ..... | 25.30 | .30 |

With brass standard, brass dish and brass plate, highly polished, without weights. For price of weights see page 402.

## IMPROVED PACKAGE AND POSTAL SCALES.



| | | Price | Inspection |
|---|---|---|---|
| No. 210, | ½ to 4 lbs ..... | 10.00 | .50 |

## DRUGGIST SCALES.

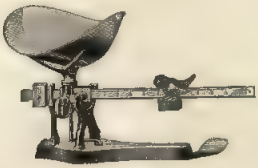
| | | Each. |
|---|---|---|
| No. 205, | 2 drs. to 8 lbs., Tin Scoop..... ..... | 11.00 |
| " 206, | 2 " 8 " Brass " ..... ..... | 12.10 |

Inspection on above 50c., net.

## LETTER SCALES.

| | | |
|---|---|---|
| No 208, | ½ oz. to 8 oz. ..... ..... | 4.40 |
| " 209, | ½ " 34 " ..... | 6.60 |

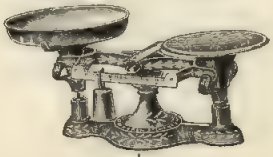
## HOUSEHOLD SCALES.



| | Price | Inspection |
|---|---|---|
| Capacity—1 oz. to 10 lbs..... ..... ..... | 4.50 | .10 |

This is a neat, strong and accurate Scale, designed to meet the demand for a cheap Scale for home use.

## GROCERS' TEA SETS.



WITHOUT SIDE BEAM.

| No. | Capacity | Dish | Weight | | Price | Inspection |
|---|---|---|---|---|---|---|
| 150, | ¼ oz. to 6 lbs. | Polished Brass, | Iron | ..... | 6.95 | .70 |
| 151, | ½ " 10 " | " | " | ..... | 8.40 | .75 |
| 152, | ½ " 17 " | " | " | ..... | 11.00 | .80 |

WITH SIDE BEAM.

| No | Capacity | Dish | Weight | | Price | Inspection. |
|---|---|---|---|---|---|---|
| 155, | ¼ oz. to 6 lbs. | Polished Brass | Iron | . | 7.95 | .45 |
| 156, | ½ " 10 " | " | " | ..... | 9.60 | .50 |
| 157, | ½ " 17 " | " | " | ..... | 12.85 | .55 |

All above with Iron Weights, complete.

Government Inspection on Scales is not subject to any discount whatever.

H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

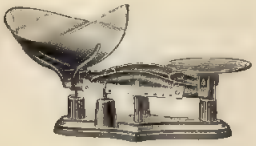
# "STANDARD" SCALES.

## (Burrow, Stewart & Milne.)

### EVEN BALANCE SCALES.

WITHOUT SIDE BEAM.

| No. | Capacity | Scoop | Price | Inspection |
|---|---|---|---|---|
| 30, | ½ oz. to 4 lbs, | Tin | 4 62 | 50 |
| 31, | ¼ " 6 " | " | 5 95 | .70 |
| 32, | ½ " 10 " | " | 7 20 | .75 |
| 35, | ½ " 4 " | Brass | 5.62 | .50 |
| 36, | ½ " 6 " | " | 7 05 | .70 |
| 37, | ½ " 10 " | " | 8 60 | .75 |



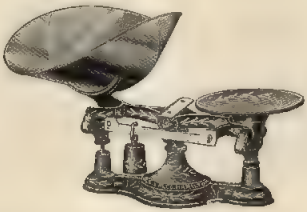
WITH SIDE BEAM.

| No. | Capacity. | Scoop | Price | Inspection |
|---|---|---|---|---|
| 40, | ½ oz to 4 lbs., | Tin | 5.30 | .30 |
| 41, | ½ " 6 " | " | 6.60 | .45 |
| 42, | ½ " 10 " | " | 8.25 | .50 |
| 45, | ½ " 4 " | Brass | 6 30 | .30 |
| 46, | ¼ " 6 " | " | 7 70 | .45 |
| 47, | ½ " 10 " | " | 9.60 | .50 |

### GROCERS' TRIP SCALES.

WITHOUT SIDE BEAM

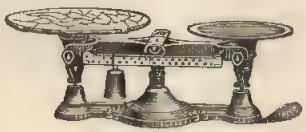
| No. | Capacity | Scoop | Price | Inspection |
|---|---|---|---|---|
| 50, | ½ oz. to 6 lbs, | Tin | 5.95 | 70 |
| 51, | ½ " 10 " | " | 7 05 | .75 |
| 52, | ½ " 17 " | " | 9 35 | 80 |
| 55, | ½ " 6 " | Brass | 6.95 | .70 |
| 56, | ½ " 10 " | " | 8.40 | 75 |
| 57, | ½ " 17 " | " | 11 00 | .80 |



WITH SIDE BEAM.

| No. | Capacity | Scoop | Price | Inspection |
|---|---|---|---|---|
| 60, | ½ oz. to 6 lbs., | Tin | 6 95 | .45 |
| 61, | ½ " 10 " | " | 8 25 | 50 |
| 62, | ½ " 17 " | " | 10.90 | .55 |
| 65, | ½ " 6 " | Brass | 7.95 | .45 |
| 66, | ½ " 10 " | " | 9.00 | .50 |
| 67, | ½ " 17 " | " | 12.55 | .55 |

### BUTTER AND MEAT TRIP SCALES.



WITHOUT SIDE BEAM.

| No. | Capacity. | | Price | Inspection |
|---|---|---|---|---|
| 110, | ½ oz. to 6 lbs., | with Two Iron Plates. | 5.95 | .70 |
| 111, | ½ " 10 " | " " " | 7.05 | .75 |
| 112, | ½ " 17 " | " " " | 9.35 | .80 |
| 115, | ½ oz to 6 lbs., | with Brass Plate and Iron Plate | 6.85 | .70 |
| 116, | ½ " 10 " | " " " | 8.05 | 75 |
| 117, | ½ " 17 " | " " " | 10.70 | .80 |
| 120, | ½ oz. to 6 lbs, | Porcelain Plate and Iron Plate | 7 50 | .70 |
| 121, | ½ " 10 " | " " " | 9.25 | 75 |
| 122, | ½ " 17 " | " " " | 12 35 | .80 |
| 125, | ½ oz. to 6 lbs, | Porcelain Plate and Brass Plate | 8 40 | .70 |
| 126, | ½ " 10 " | " " " | 10.25 | .75 |
| 127, | ½ " 17 " | " " " | 13.55 | .80 |

WITH SIDE BEAM.

| No | Capacity | | Price | Inspection |
|---|---|---|---|---|
| 130, | ½ oz. to 6 lbs., | with Two Iron Plates | 6.95 | .45 |
| 131, | ½ " 10 " | " " | 8.25 | .50 |
| 132, | ½ " 17 " | " " | 10 90 | .55 |
| 135, | ½ oz. to 6 lbs, | with Brass Plate and Iron Plate | 7 95 | .45 |
| 136, | ½ " 10 " | " " " | 9.25 | .50 |
| 137, | ½ " 17 " | " " " | 12 20 | .55 |
| 140, | ½ oz to 6 lbs, | Porcelain Plate and Iron Plate | 8.60 | 45 |
| 141, | ½ " 10 " | " " " | 10.50 | 50 |
| 142, | ½ " 17 " | " " " | 13 88 | 55 |
| 145, | ½ oz. to 6 lbs, | Porcelain Plate and Brass Plate | 9.45 | .45 |
| 146, | ½ " 10 " | " " " | 11.55 | .50 |
| 147, | ½ " 17 " | " " " | 15.10 | .55 |

Either Round or Square Porcelain Plate can be supplied.

**"ELLIOT'S" hand-forged** Beef Slicers, and Cook's Knives are the very best made.

# Hammocks.

| | | Per Dozen |
|---|---|---|
| No. 8 | Blue and White Canvas, without Valance. Size of Bed 3x7 Ft., with Two Curved Wood Stretchers, Hangers of No. 12 Cotton Cord, Woven to a 2 In. Japanned Ring. Hangers Are Looped Over Stretchers Through Brass Grommets Placing the Strain on the Stretcher, | $30.00 |
| No. 8V | Blue and White Canvas, with Valance. Size of Bed 3x7 Ft., with Two Curved Wood Stretchers, Hangers of No. 12 Cotton Cord, Woven to a 2 In. Japanned Ring, Hangers Are Looped Over Stretchers Through Brass Gommets Placing the Strain on the Stretcher, | 40.00 |

SCHWABACHER HARDWARE CO.

# Croquet Sets.

| | | Per Set |
|---|---|---|
| No. G | —Four Ball Set, Mallets and Balls Painted and Oiled, Rustless Wickets, | $2.25 |
| No. O | —Eight Ball Set, Mallets and Balls Painted and Oiled, Rustless Wickets, | 3.25 |
| No. B | —Eight Ball Set, Mallets and Balls Painted and Varnished, of Good Quality Stock. Rustless Wickets, | 4.00 |
| No. C | Eight Ball Set, Mallets and Balls Painted and Varnished, Mallets are 5½ In. Long, Selected Handles, Fancy Stakes, Large Wickets with Sockets, | 4.75 |
| No. N | Eight Ball Set, Mallets and Balls Fancy, Painted and Varnished, Painted Large Fancy Stakes, Large Wickets with Sockets, | 5.75 |
| No. F | —Eight Ball Set, Mallets and Balls Painted and Varnished, Mallets 6 In. Long, Large Fancy Stakes, Large Wickets with Sockets, | 6.50 |
| No. M | Eight Ball Set, Mallets and Balls Fine Shellac Finish, Mallets 7 In. Long, with Polished Professional Handles, Balls of Selected Maple, Large Stakes, Rustless Wickets with Sockets, | 7.25 |
| No. AA | Eight Ball Club Set, Mallets and Balls Painted and Varnished, All Stock of Best Quality Sugar Maple, Mallet is 8 In. Long, with Polished Professional Handles, Fancy Beaded Stakes, Rustless Wickets with Sockets, | 8.25 |

All the Above Packed in Dovetailed Wooden Boxes and Each Set Furnished with Book of Rules.

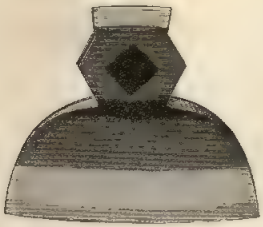
## Bench Axes.

"Star."

| Nos | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| Length of Cut | 4½ | 5¼ | 5½ | 6 | 6½ |
| Per dozen | 14.40 | 15.60 | 17.40 | 19.80 | 21.00 |

One-half dozen in box.

## Broad Axes.



| Weight | 6 | 6½ | 7 | 7½ | 8 | 8½ | 9 lbs |
|---|---|---|---|---|---|---|---|
| Width about | 10½ | 10⅝ | 11 | 11¼ | 11½ | 12½ | 13 inch |
| Per dozen | 52.50 | 52.50 | 52.50 | 52.50 | 57.75 | 57.75 | 57.75 |

## Adzes.

Carpenter's Adzes.

| | | No. 1 | No. 2 |
|---|---|---|---|
| "Star," | per doz. | 26.10 | |
| Warnock | per dozen | 30.45 | 34.80 |

Plain Ship Adzes.

Per dozen ..... 33.60

Lipped Ship Adzes.

Per dozen ..... 38.40

## Grub Hoes.

Oval Eye.

| | Per dozen |
|---|---|
| No. 2, 4 in. cut, Weight 4 lbs. | 9.00 |

## Light Sprouting Hoes.

| | Per dozen |
|---|---|
| 6/0, Solid Steel, 4½ in Blade | 8.00 |

## Planters' Hoes.

| No. | 0 | 1 | 2 | 4 |
|---|---|---|---|---|
| Size | 7 | 7½ | 8 | 9 inches |
| Per dozen | 5.50 | 6.00 | 6.50 | 9.00 |

"ELLIOT'S" hand-forged Butcher Knives are the very best made.

# HATCHETS.

## Shingle Hatchets.

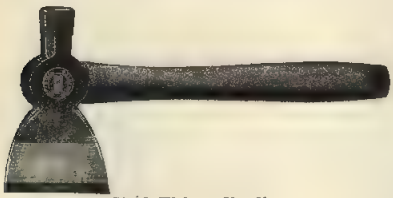
| | No. | Length of Cut | Per dozen |
|---|---|---|---|
| Sharp's | 0, | 3½ in. | 8.10 |
| " | 1, | 3¾ " | 8.65 |
| " | 2, | 3¾ " | 9.20 |
| " | 3, | 4¼ " | 9.75 |

## Claw Hatchets.

| | No. | Length of Cut | Per dozen |
|---|---|---|---|
| Sharp's, | 1, | 3½ in. | 9.75 |
| " | 2, | 3¾ " | 10.25 |
| " | 3, | 4⅛ " | 10 80 |

One-half dozen in a box.

## "Rex" Shingle Hatchets.



Steel, Hickory Handles

| | Per dozen |
|---|---|
| "Rex," No. 2, 3⅜ in. cut | 7 20 |

## "Rex" Claw Hatchets.

Steel, Hickory Handles.

| | Per dozen |
|---|---|
| "Rex," No. 2, 3⅜ in. cut | 8.00 |

One-half dozen in a box.

## "Ideal" Hatchets

"Ideal" Lath, 2½ in Cut .... Per dozen 12.00

"Ideal" Half Hatchets, 2½ in. Cut Per dozen 12.00

"Ideal" Hatchets, 3½ in. Cut.... Per dozen 12.00

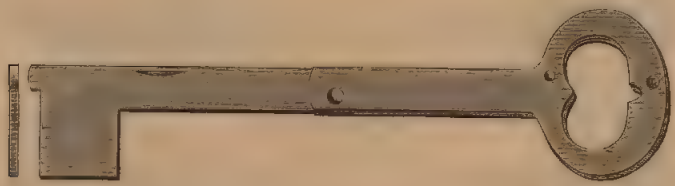
One-half dozen in box.

"ELLIOT'S" hand forged Carving Knives and Forks are the very best made.

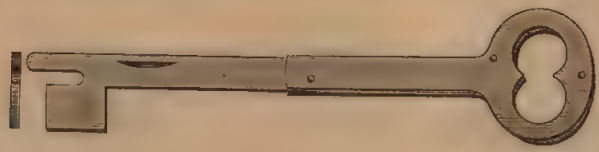
H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

# Steel Folding Door Key Blanks.

No. 6824— . . . . . Per Dozen $5.00



No. 6837— . . . . . Per Dozen $5.00



No. 6844— . . . . . Per Dozen $5.00

# Flat Steel Door Key Blanks.

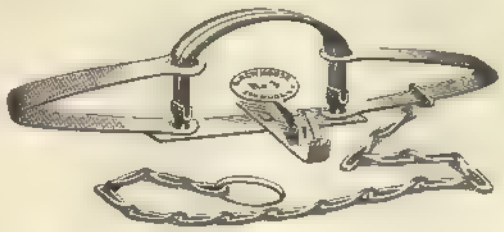
No. 8416— . . . . . Per Dozen $0.60

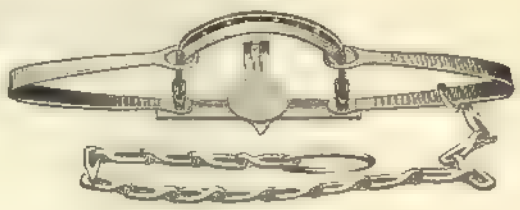
No. 8418— . . . . . Per Dozen $0.60

No. 8419— . . . . . Per Dozen $0.60

No. 8410—Rim, . . . . . Per Dozen $0.65
No. 8439 Mortise, . . . . . .65

# Steel Game Traps.

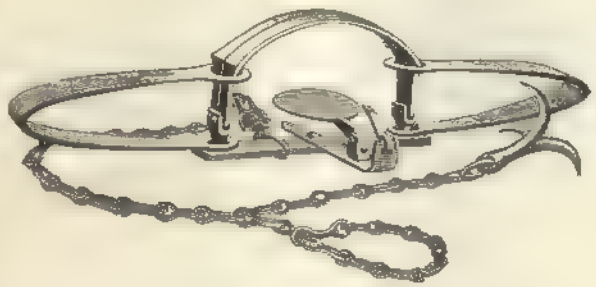




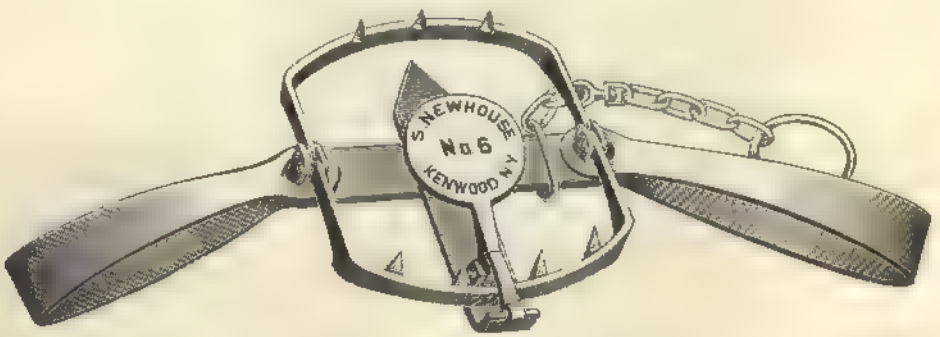
**Genuine Newhouse.**

**Double Spring, with Chain.**

| | Per Dozen |
|---|---|
| **No. 4**—Beaver, Spread of Jaws 6½ in., | $16.50 |
| **No. 14** Deer, Spread of Jaws 6½ in., | $17.50 |

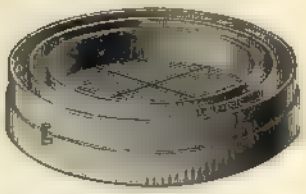


| | Per Dozen |
|---|---|
| **No. 4½** Wolf, Spread of Jaws 8 in., with Extra Heavy Steel Chain, Swivel and Pronged Drag, | $40 00 |
| **No. 5**—Bear, Spread of Jaws, 11¾ in., with Heavy Chain, Swivel and Ring, | $120 00 |




| | Per Dozen |
|---|---|
| **No. 6** Bear, Spread of Jaws 16 in., with Heavy Chain, Swivel and Ring, | $240.00 |

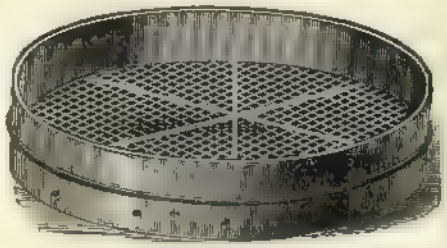
# Oat Sieves.



| | Per Dozen. |
|---|---|
| **No. 14**—14 in., Wood Rim, Plain Steel Wire, No. 12 Mesh, | $4.00 |
| **No. 16**—16 in., Wood Rim, Plain Steel Wire, No. 12 Mesh, | 5.00 |
| **No. 18**—18 in., Wood Rim, Plain Steel Wire, No. 12 Mesh. | 6.00 |

One Dozen in a Bundle.

# Grain, Sand and Foundry Riddles.



| | Per Dozen. |
|---|---|
| **No. 20**—18 in., Grain or Sand, Iron Wire, Nos. 2, 3, 4, 5, 6, 7, 8, 9, 10 and 12 Mesh, | $ 6.00 |
| **No. 30**—18 in., Foundry, Brass Wire, Nos. 2, 3, 4, 6 and 8 Mesh, | 16 00 |

Half Dozen in a Rack

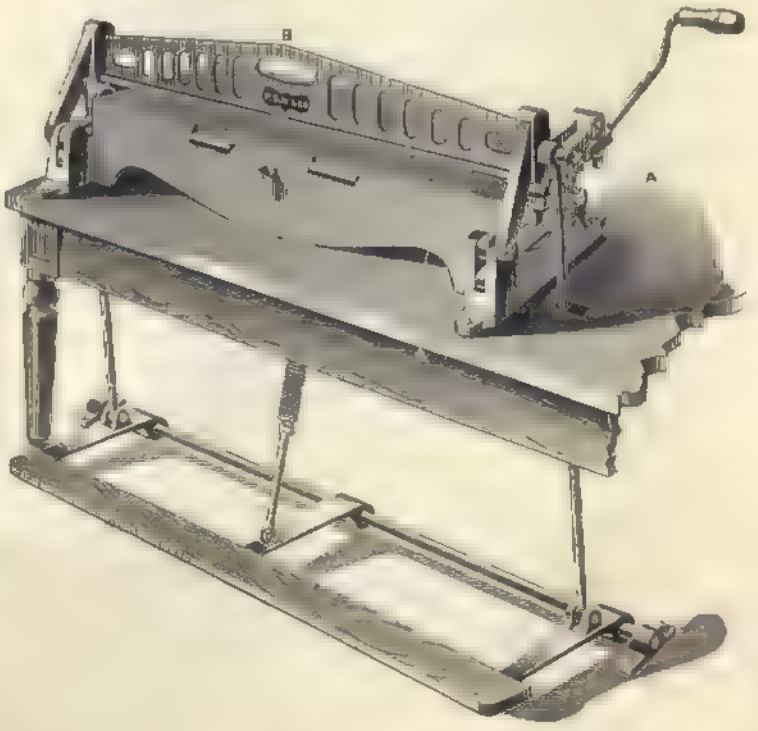
# Sand Screens.

| | Each. |
|---|---|
| **No. 1**—Sand Screens, Wood Frame, Plain Steel Wire, Height 72 in., Width 29 in., Nos 3, 4, 5 and 6 Mesh, | $6 00 |

# Tinners' Tools and Machines.

**Stow's Patent Adjustable Bar Folders.**

| | Each |
|---|---|
| **No. 50**—17 in. Folding Machines, for Tin, will Turn Locks from $\frac{1}{32}$ to $\frac{1}{2}$ in., | $25.00 |
| **No. 52**—20 in. Folding Machines, will Turn Locks from $\frac{1}{16}$ to 1 in., | 30 00 |
| **No. 54**—30 in. Folding Machines, will Turn Locks from $\frac{1}{16}$ to 1 in., | 40.00 |
| **No. 56**—42 in. Folding Machines, will Turn Close Locks only from $\frac{1}{16}$ to $1\frac{1}{8}$ in., | 80.00 |



**With Square Box and Square Pipe Attachment.**

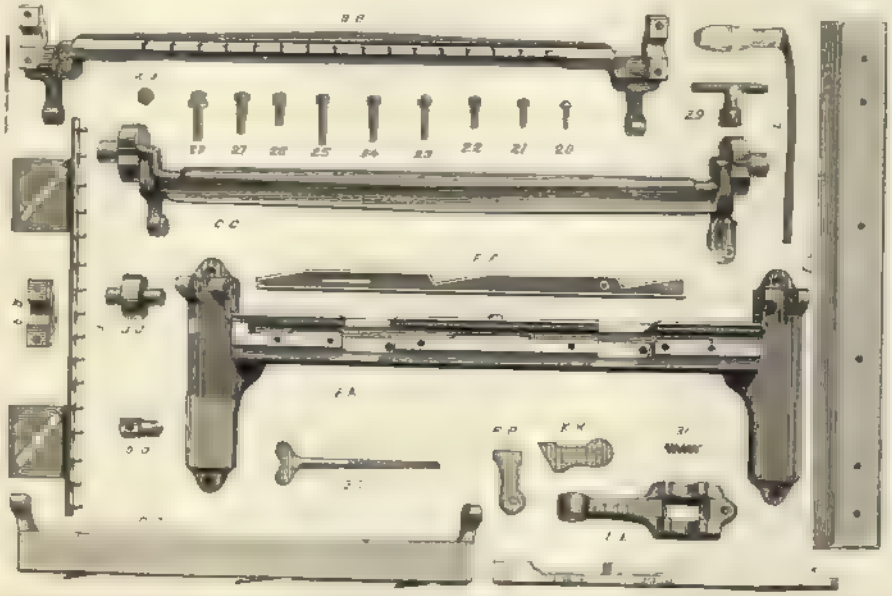
| | Each. |
|---|---|
| **No. 54**—30 in. Folding Machines, with Square Box and Square Pipe Attachment, will Turn Locks from $\frac{1}{16}$ to 1 in., | $50 00 |

# Tinners' Tools and Machines.

**Stow's Adjustable Bar Folding Machines.**

| | Each. |
|---|---|
| **No. 152**—20¼ in Folding Machines, will Turn Locks from $\frac{1}{32}$ to 1 in., | $30.00 |
| **No. 154**—31 in Folding Machines, will Turn Locks from $\frac{3}{32}$ to 1 in., | 40.00 |

These Folders will turn Locks of the same widths and are adapted to same kind of work as Nos. 52 and 54 Folders, but have an improved Device for setting and moving the Gauge. The movement of the Gauge is almost instantaneous and a Set Screw in front and at the left of the Machine holds the Gauge firmly in place. The Parts of these Folders are interchangeable, and correspond with the Parts of Nos. 52 and 54 Folder, excepting HH and No. 30.



**Interchangeable Parts Belonging to Stow's Adjustable Bar Folders.**

**For Nos. 52 and 152 Folders.**

| | Each |
|---|---|
| **AA**—Frame, | $8 00 |
| **BB**—Jaw, | 4 00 |
| **CC**—Bar, | 4 00 |
| **DD**—Wing for Bar, | 3 00 |
| **EE**—Blade | 4 00 |
| **FF**—Wedge, | 50 |
| **GG**—Gauge | $3 50 |
| **HH**—Side | 1 00 |
| **II**—Shoe, | 50 |
| **JJ**—Friction Roller, | 50 |
| **KK**—Stop, | 25 |
| **LL**—Handle, | $0 40 |
| **MM**—Set Nut for Screw No. 23, | 25 |
| **OO**—Nut for Gauge Screw, | 75 |
| **PP**—Stop, | 25 |
| **QQ**—Cap | 50 |

**Screws.**

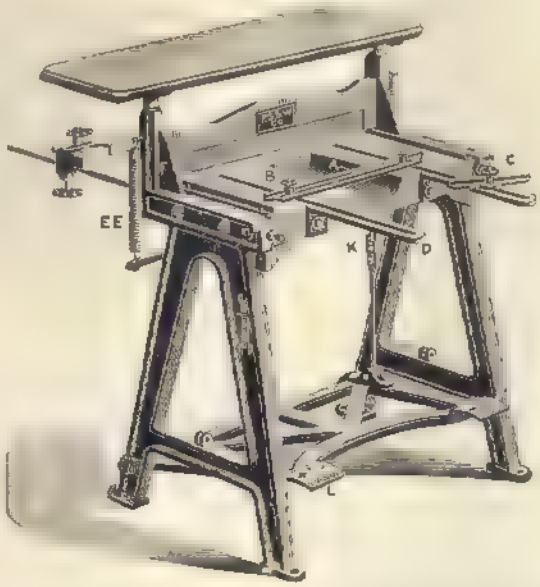
| | Each |
|---|---|
| **No. 20**—Wedge Screw, | $0 25 |
| **No. 21**—Stop Screw, | 25 |
| **No. 22**—Cap Screw, | 25 |
| **No. 23**—Shoe Set Screw, | 25 |
| **No. 24**—Blade Screw, | 25 |
| **No. 25**—Frame Screw, | $0 25 |
| **No. 26**—Handle Gauge Set Screw, | 10 |
| **No. 27**—Wing Screw | 25 |
| **No. 28**—Wedge Screw, | $0 25 |
| **No. 29**—Wrench | 10 |
| **No. 30**—Gauge Screw | 50 |
| | Per Pair |
| **No. 31**—Gauge Springs, | $0 15 |

**For Nos. 54 and 154 Folders.**

| | Each. |
|---|---|
| **AA**—Frame, | $7.00 |
| **BB**—Jaw, | 6.00 |
| **CC**—Bar, | $5 00 |
| **DD**—Wing for Bar, | 4 00 |
| **EE**—Blade, | $5 00 |
| **GG**—Gauge, | 3 50 |

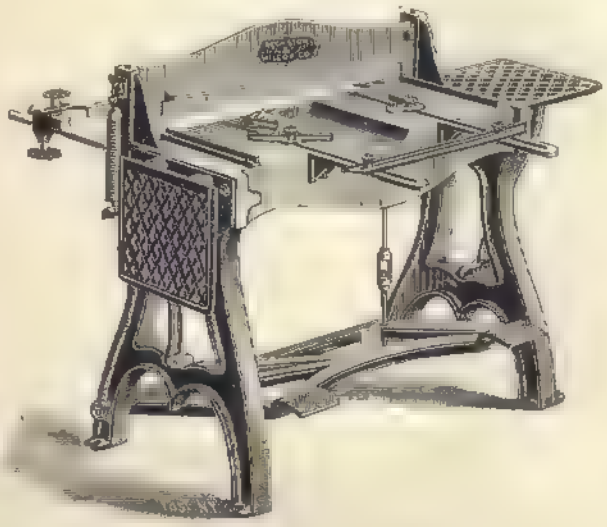
Other Parts same as No. 52 Folder.

# Tinners' Tools and Machines.



**Stow's Improved Squaring Shears.**

| | Each. |
|---|---|
| **No. 30**—Stow's Improved, without Side Extension Tables, will Cut No 18 Iron, 31 in. Long, | $50.00 |
| **No. 130**—Stow's Improved, with Side Extension Tables, will Cut No 18 Iron, 31 in. Long, | $52.00 |



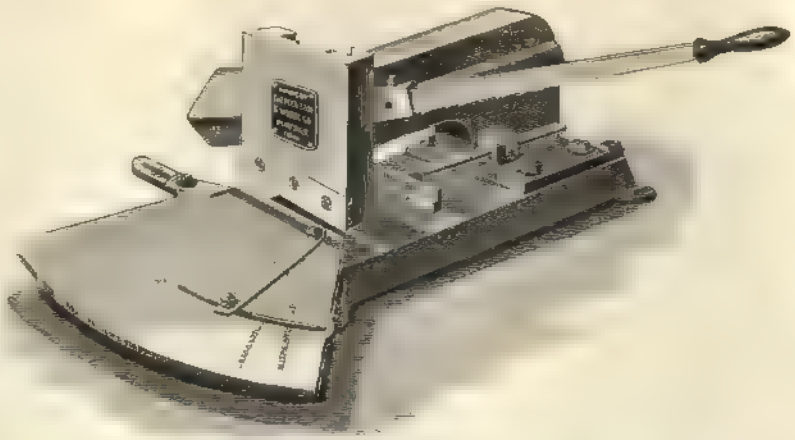
**Stow's Improved Squaring Shears.**

| | Each. |
|---|---|
| **No. 0130**—Stow's Improved, Extra Heavy, with Side Extension Tables will Cut No 16 Iron, 31 in. Long, | $70.00 |
| **No. 300**—Stow's Improved, Extra Heavy, with Side Extension Tables, will cut No 18 Iron, 31 in Long, | $55.00 |

**Extras for Stow's Improved Squaring Shears.**

| | Per Pair | | Each. |
|---|---|---|---|
| Cutting Blades, for Nos. 30, 130 and 300, | $12 00 | Side Springs, | $0.75 |
| Cutting Blades, for No. 0130, | 12.00 | | |

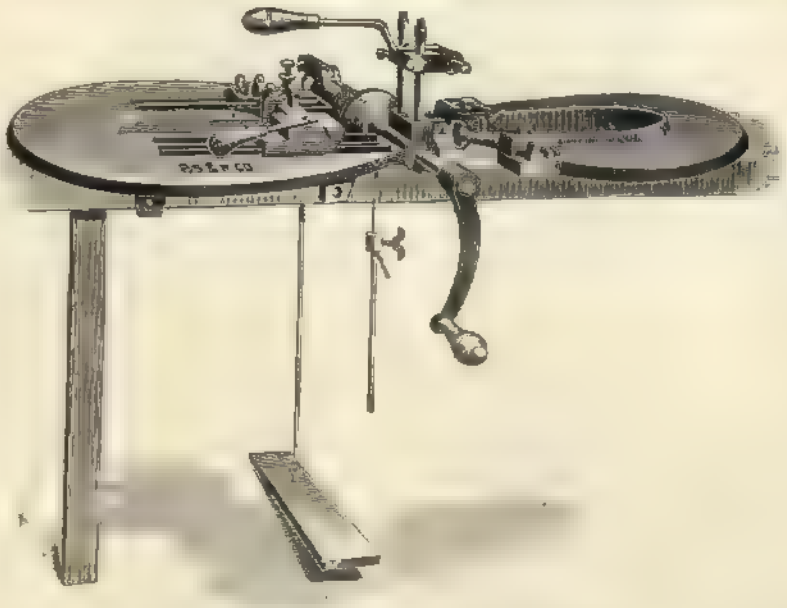
# Tinners' Tools and Machines.

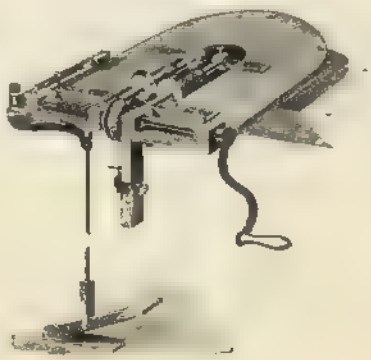


**Combined Bench and Slitting Shears.**

The above illustrations show some of the shapes which can be cut with this Shear from the center of a sheet of Plate Metal

| | Each |
|---|---|
| **No. 7**—Combined Bench and Slitting Shears, Scale 1¾ to 12 in., will Cut No. 18 Iron, . . . . | $25.00 |





## Savage's Patent Combination Circular Shears.

| | Each |
|---|---|
| **No. 1** Savage's Circular Shears, with Burring Attachment, for Light Metal, . . . | $35.00 |
| **No. 1**—Savage's Circular Shears, without Burring Attachment, for Light Metal, | 30.00 |

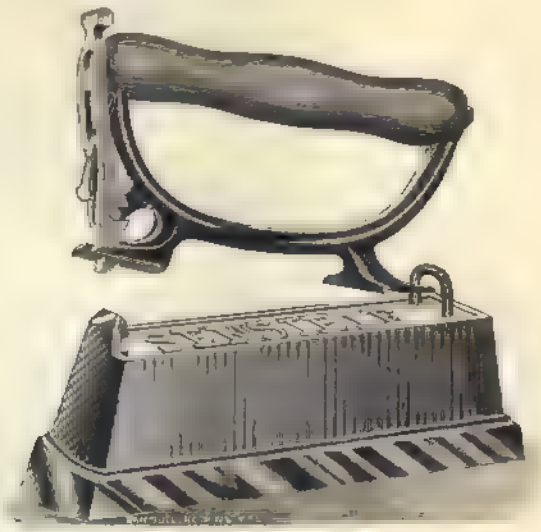
This Shear has Four Pair of Discs, One Pair each, 1⅛, 3, 4⅞ and 7⅝ in. Diameter. They will Cut Circles from 2⅜ to 23 in. Diameter from Tin, and will bend or burr the same at any desired Angle without extra Discs

## Newton's Patent Circular Shears.

| | Each |
|---|---|
| Newton's Patent Circular Shears, with Two Pair Discs, One Pair Each, 2⅜ and 5⅞ in. Diameter, . | $22.00 |

This Shear will Cut Circles from 3 to 14 in. Diameter from Tin

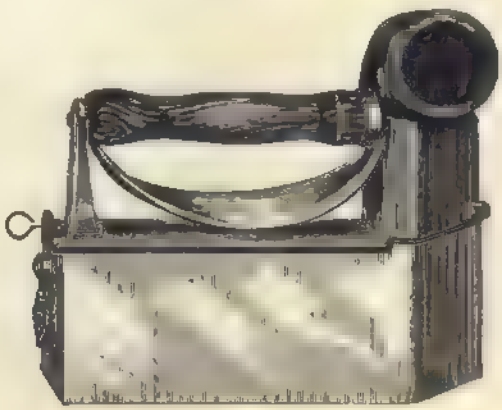
# Tailors' Geese.



| | Per Pound. |
|---|---|
| **No. 15**—Common, Polished Face. Weights 12, 14, 16, 18, 20, 22, 24, 26, 28 and 30 Lbs. . . . | $0.06 |

| | Per Pound |
|---|---|
| **No. 16**—Streeter's Sensible. Extra Polished Face, without Handle, Weights, 16, 20, 24 and 28 Lbs., . . . . . | $0.08 |
| | Per Dozen. |
| **No. 20**—Detachable Handles, for Streeter's Sensible Tailors' Geese. . . . . | $5.00 |

# Charcoal Sad Irons.



**Family.**

| | Per Dozen. |
|---|---|
| **No. 3**—Single Flue, Weight 6½ Lbs., . | $15 00 |
| **No. 4**—Single Flue, Weight 7 Lbs., . . . | 15 00 |

**Tailors'.**

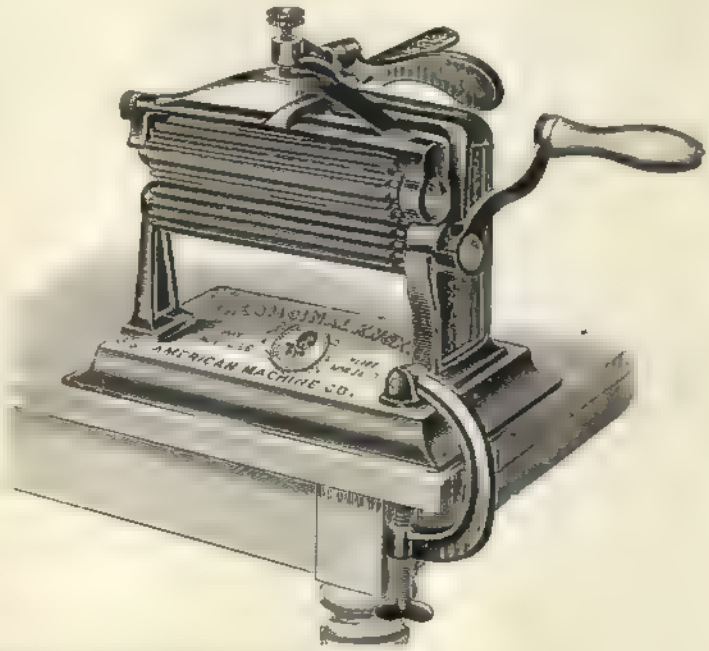
| | Per Dozen. |
|---|---|
| **No. 16** Single Flue, Weight 16 Lbs., . | $35 00 |
| **No. 18** Single Flue, Weight 18 Lbs., | 35 00 |

# Hand Fluters.

| | Per Dozen. |
|---|---|
| No. 60—Geneva Hand Fluters. White Metal Base and Rocker. | $15 00 |

Half Dozen in a Box

# Fluting Machines.




| | Each |
|---|---|
| No. 1—Knox Fluting Machines, 4½ in. Rolls. 15, 18 and 22 Flutes. | $3 25 |
| No. 2 Knox Fluting Machines, 6 in Rolls 15, 18 and 22 Flutes. | 3.60 |

One in a Box

# Pinking Irons.

No. 1 Diamond Teeth, Cast Steel, Polished. No. 2—Scallop Teeth, Cast Steel, Polished.

| Inches, | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 |
|---|---|---|---|---|---|---|
| Per Dozen, | $1 30 | 1 50 | 1.50 | 1 50 | 1 50 | 1 50 |

| Inches, | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 |
|---|---|---|---|---|---|---|
| Per Dozen. | $1 50 | 1 50 | 1 50 | 1 50 | 1 50 | 1 50 |

One Dozen in a Box

# Target Pistols.

**Stevens' Tip Up.**

| | | Each |
|---|---|---|
| **No. 10** | 22 Caliber Rim Fire Cartridge, 3½ in Barrel, Nickel Plated, Plain Walnut Grip Stock, . . | $2.50 |

**Stevens', Diamond Model.**

**Stevens', Lord Model.**

| | | Each |
|---|---|---|
| **No. 1** | 22 Caliber Rim Fire Long Rifle Cartridge, 6 in Blued Steel Barrel, Long Plain Walnut Grip Stock, Nickel Plated Frame. Fitted with Globe Front and Peep Rear Sights. Weight 10 Oz., . . . . . | $5.00 |
| **No. 36**—22 Caliber Rim Fire Long Rifle Cartridge, 10 in Blued Steel Barrel, Heavy Butt Stock, with Checkered Walnut Grip, Spur Trigger Guard, Nickel Plated Frame, Guard and Butt, Fitted with Ivory Bead Front and Open Wind Gauge Rear Sights, Weight 3 Lbs., . | | $16.50 |

**Remington, New Model.**

| | | Each |
|---|---|---|
| **No. 38** | 22 Caliber Rim Fire Short or Long Rifle Cartridge, 10 in Half Octagon Blued Steel Barrel, Checkered Walnut Stock and Tip, . . . . . | $16.00 |

# Rifle Sights.

No. 5—As used with Ivory

No. 5—As used with Hood Globe

### Combination Ivory Front.

**No. 5**—Lyman's Combination Front Sights, Each $1 00

No. 2—As used Open.

No. 2—As used with Globe

### Beach Combination Front.

**No. 2** Beach Combination Front Sights, Each $1 00

### Sporting Front.

**No. 7**—Sporting Front Sights, Each $0 30

### Marble's Front.

**No. 15**—Marble's Improved Front Sights, Each $1.00

### Winchester Express Front.

**No. 03**—Winchester Express Front Sights, Each $0 50

### Ivory Hunting Front.

**No. 4**—Lyman's Ivory Hunting Front Sights, Each $0 50

### Jack Sights.

**No. 20**—Lyman's Ivory Jack Sights, Each $1 00

### Ivory Bead Front.

**No. 3**—Lyman's Ivory Bead Front Sights, Each $1.00

### Ivory Bead Front.

**No. 26**—Lyman's Ivory Bead Front Sights, for Winchester 30 Caliber Rifle, Model 1895, Each $0.50

### Rocky Mountain Front.

**No. 6¼**—Rocky Mountain Front Sights, Knife Edge, Each $0.50

### Knife Blade.

**No. 6½**—Knife Blade Front Sights, German Silver, for Winchester Rifle, Model 1890, Each $0.50

### Globe with Interchangeable Discs.

**No. 04**—Globe Front Sights, Interchangeable Discs, Each $1 25

### Leaf.

**No. 6**—Lyman's Leaf Sights to replace the ordinary Rear Sights, Each $1 00

### Winchester Express Rear.

**No. 13**—Winchester Express Rear Sights, Each $1.50

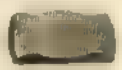
### Rocky Mountain Sporting Rear.

**No. 10**—Rocky Mountain Rear Sights, Large, for Models '89, '93, '94, etc., Each $0 80

**No. 11**—Rocky Mountain Rear Sights, Small, for Models '91, '92, etc., Each .80

### Spirit Level.

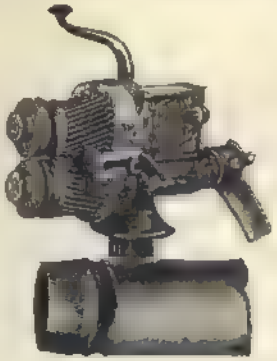
**No. 14**—Spirit Level Sights to Fill Rear Slot in Long Range Shooting, Each $1 00



### Slot Blanks.

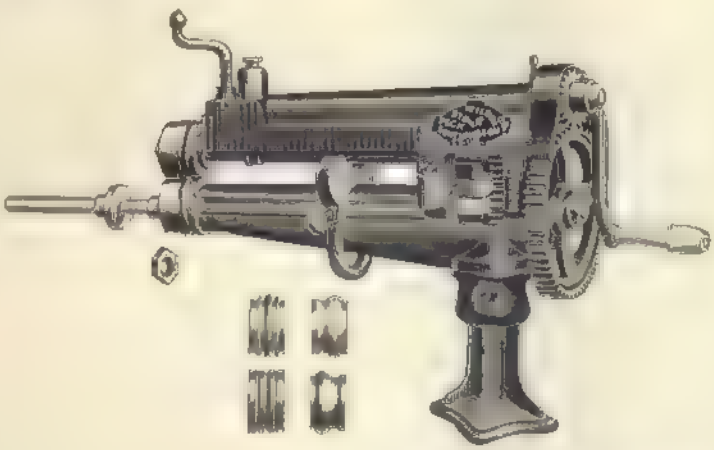
**No. 12**—Slot Blanks, to Fill Rear Slot, Each $0 25

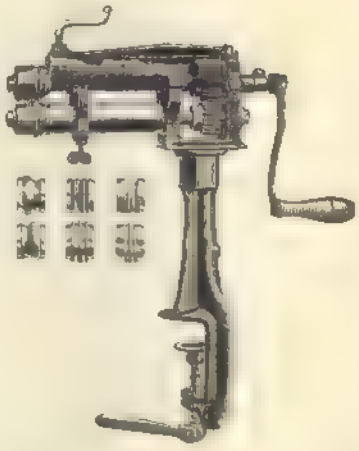
# Tinners' Tools and Machines.



## Packham's Crimping Machines.

| | Each. |
|---|---|
| **No. 3**—Packham's Crimping Machines, with Stand, | $9.00 |
| Extra Upper or Lower Rolls, | Per Pair $3.00 |





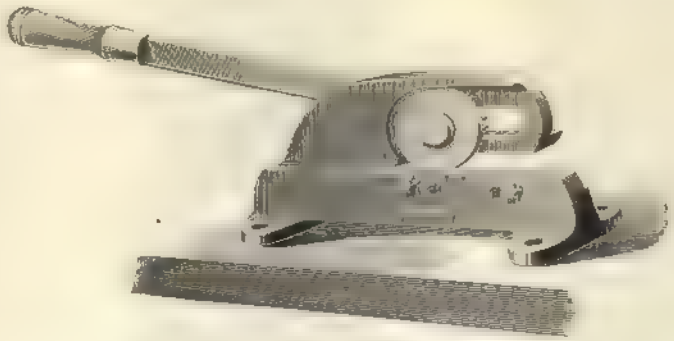
## Stow's Patent Beading Machines.

| | Each. |
|---|---|
| **No. 1**—13 in., Stow's Patent, with Three Pair Rollers and Rotary Stand, Size of Beads, 1 in. O. G., 1 in. Triple, $\frac{3}{8}$ in. Single, | $32 25 |
| **No. 2**—10 in., Stow's Patent, with Three Pair Rollers and Rotary Stand, Size of Beads, 1 in O. G., 1 in Triple, $\frac{3}{8}$ in. Single, | 31 25 |
| **No. 3**—7½ in., Stow's Patent, with Three Pair Rollers and Rotary Stand, Size of Beads, $\frac{7}{8}$ in. O. G., $\frac{7}{8}$ in. Triple, $\frac{5}{16}$ in. Single, | 26 25 |
| **No. 4**—6 in., Stow's Patent, with Four Pair Rollers and Rotary Stand, Size of Beads, $\frac{3}{4}$ in O. G., $\frac{3}{4}$ in. Triple, $\frac{1}{2}$ in. Triple Coffee Pot, $\frac{1}{2}$ in. Single, | $19.75 |
| **No. 5**—4 in., Stow's Patent, for Tin, with Five Pair Rollers and Rotary Stand, Size of Beads $\frac{7}{16}$ in. Astragal, $\frac{7}{16}$ in. O G., $\frac{3}{8}$ in. Triple Coffee Pot, $\frac{5}{16}$ in. Triple Coffee Pot, Fine, $\frac{1}{2}$ in. Single, | 16.75 |

## Extra Parts for Stow's Patent Beading Machines.

| | Per Pair |
|---|---|
| Wrought Iron Rollers for Nos. 1 and 2, | $3 50 |
| Wrought Iron Rollers for No. 3, | 3 00 |
| Wrought Iron Rollers for No. 4, | 2 00 |
| Wrought Iron Rollers for No. 5, | 1 25 |
| Guide Rest for Nos. 4 and 5, | 75 |
| Crimping Rolls for Nos. 1 and 2, | 6 00 |
| Crimping Rolls for No. 3, | 5 00 |
| Crimping Rolls for No. 4, | 3 50 |
| Crimping Rolls for No. 5, | 2 50 |
| | **Each.** |
| Standards for Nos. 1, 2 and 3, | $1 25 |
| Standards for Nos. 4 and 5, | 75 |
| Cranks or Crank Screws, for Nos. 1, 2 and 3, | 50 |
| Cap and Crank Screws for No. 4, | 2 00 |
| Gauges for No. 4, | 75 |

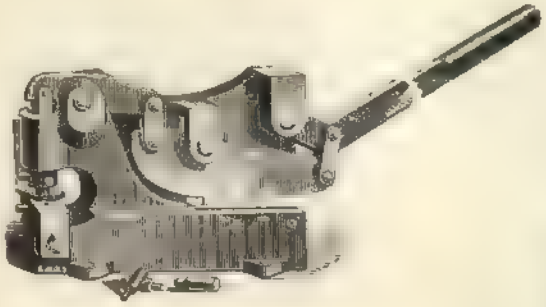
# Tinners' Tools and Machines.

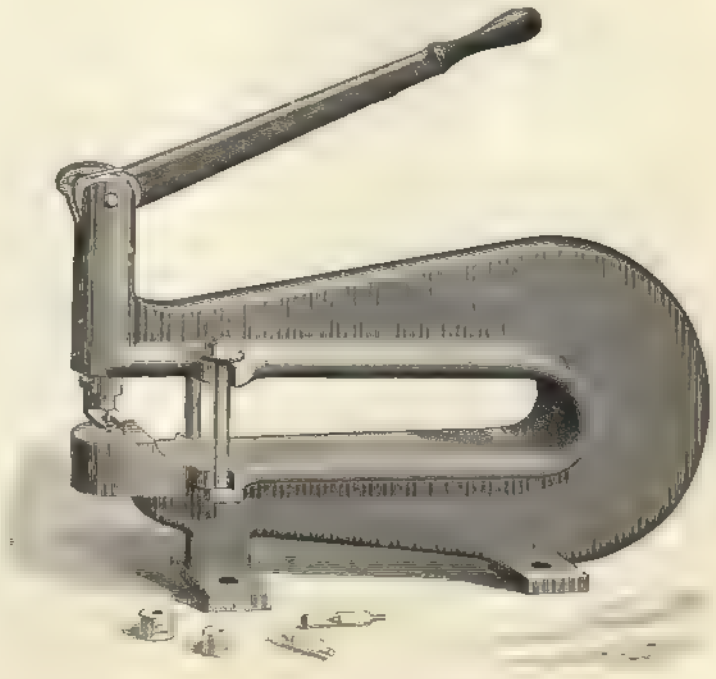


**Continuous Rolling Cutter Shears.**

| | Each |
|---|---|
| **No. 11**—Continuous Rolling Cutter Shears, Will Cut No. 20 Iron, | $5.00 |
| **No. 12**—Continuous Rolling Cutter Shears, Will Cut No. 16 Iron, | 7 50 |

This Shear is operated by a pinion lever engaging in a rack and cutting with the forward roll of the cutting disc.





**Combined Shears and Punches.**

| | | Each. |
|---|---|---|
| **No. 1** | Combined Shears and Punches, with Four Punches, One each, $\frac{1}{8}$, $\frac{5}{16}$, $\frac{1}{2}$, $\frac{5}{16}$ in., Suitable for Nos. 16 and 14 Iron, | $16.00 |
| **No. 2** | Combined Shears and Punches, with Five Punches, One Each, $\frac{1}{8}$, $\frac{5}{16}$, $\frac{1}{2}$, $\frac{5}{16}$ and $\frac{5}{8}$ in., Suitable for Nos. 16 and 14 Iron, | 20.00 |

| | Each. |
|---|---|
| Extra Punches for Nos. 1 or 2, | $0.75 |
| Extra Dies for Nos. 1 or 2, | 1.25 |

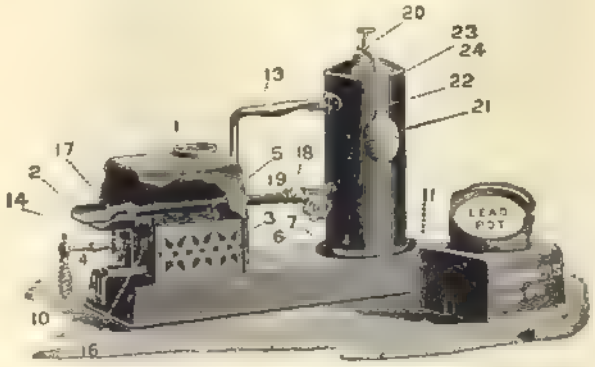
**Samson Punches.**

Bolt Fastened, Wrought Iron Links.

| | Each |
|---|---|
| **No. 5**—Samson Punches, with Three Sets of Dies and Punches, $\frac{3}{8}$, $\frac{7}{16}$ and $\frac{1}{2}$ in. will Punch No. 9 Iron, with Stay Bolts, and No. 12 Iron, without Stay Bolts, | $20.00 |

| | Each. |
|---|---|
| Extra Punches for No. 5, | $0.75 |
| Extra Dies for No. 5, | 1.25 |

# Tinners' Tools.

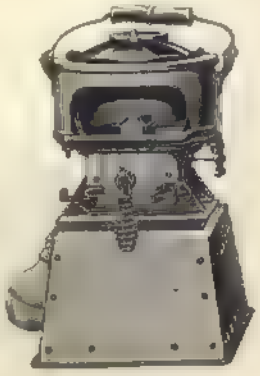



**Soldering Furnaces.**

| | Each |
|---|---|
| **No. 3**—Gem, Tin Reservoir, for Gasoline, | $7 00 |

**Repairs for No. 3 Gem Soldering Furnaces.**

| No. | Name | Description | Each |
|---|---|---|---|
| 1 | Hood, | Part that covers the soldering coppers, | $0 40 |
| 2 | Front Resting Plate, | Part that soldering coppers rest on, | 30 |
| 3 | Back Resting Plate, | Part that points of soldering coppers rest on, | 20 |
| 4 | Drip Cup, | Part that holds the oil for heating generator valve in starting, | 20 |
| 5 | Cylinder or Slotted Burner, | Cylindrical slotted part that supplies the flame, 5⅛ in. long, | 75 |
| 6 | Side Pieces, | Parts supporting furnace and protecting flame, | 06 |
| 7 | Ring, | Iron part around bottom of reservoir, attached to base, | 10 |
| 10 | Slide Rod, | Part that drip cup slides on, | 07 |
| 11 | Steel Base, | Part that furnace and reservoir rest on, | 50 |
| 13 | Handle, | Malleable iron to support reservoir and carry furnace, | 20 |
| 14 | Mixing Tube, | Conveys gas from needle point to mixing chamber, | 10 |
| 16 | Bolts | For bolting front and back resting plates together Length 6¼ in., | 05 |
| 17 | Generator Valve, | Valve that regulates and generates the gas, | 75 |
| 18 | Oil Faucet, | Valve that goes between furnace and reservoir, | 60 |
| 19 | Generating Pipe, | Pipe that fits in furnace over slotted burner, | 50 |
| 20 | Air Faucet, | Brass casting that screws on top of reservoir, | 75 |
| 21 | Patent Rubber Bulb and Tube, | Part fits on tube of air faucet for supplying pressure. | 60 |
| 22 | Rubber Valve, | Part that works in metal coupling of bulb, | 03 |
| 23 | Tin Reservoir, | Gasoline Tank, includes air faucet and pipes, | 2 50 |
| 24 | Copper Reservoir, | | 3 50 |
| 25 | Plumber's Lead Pot, | | 50 |
| 26 | Plumber's Hood, | | 50 |



**Gem.**

**Special.**

**Soldering Furnaces.**

| | Each. |
|---|---|
| **No. 6**—Gem, Tin Reservoir, for Gasoline, | $7.50 |

| | Each |
|---|---|
| **No. 5** Special, Galvanized Tank, Japanned Sheet Iron Hood, | $7.00 |

# Tinners' Tools.

**Fire Pots.**

| | Each |
|---|---|
| No. 2—Buttles', for Charcoal, | $3.00 |

**Blow Torches.**

| | Each |
|---|---|
| No. 18—Heavy Spun Brass, Seamless Tank, Brass Air Pump Capacity 1 Pint of Gasoline. | $4 00 |

Produces a Solid Blue Flame of intense heat, Suitable for Tinners, Plumbers, Electricians and Painters use.

## Yager's Soldering Salts.

| | Per Box |
|---|---|
| No. 1—Yager's Soldering Salts, in ½ lb. Bottles, | $0 75 |
| No. 5—Yager's Soldering Salts, in 5 lb. Bottles. | 3 75 |

## Resin.

| | Per Pound |
|---|---|
| Resin, Extra Quality, | $0 04 |

About 300 Pounds in a Barrel.

## Charcoal.

| | Per Bushel |
|---|---|
| Charcoal, Best Quality, in Bags, | $0 25 |

About 3 Bushels in a Bag

## Welding Compound.

| | Per Pound. |
|---|---|
| Cherry Heat Welding Compound, in 5 lb. Boxes, | $0.25 |

## Borax.

| | Per Pound. |
|---|---|
| Borax, Best Crystal Refined. | $0.18 |

# Tinners' Tools and Machines.

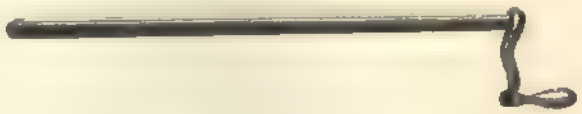
## Stow's Patent Gutter Beaders.

| | | Each |
|---|---|---|
| No. 00 | Rod 72 in. Long, ⅞ or 1 in. Diameter, | $35 00 |
| No. 0 | Rod 30 in. Long, ¾ to ⅞ in. Diameter, | 10 00 |
| No. 1 | Rod 20 in. Long, ⅝ to ¾ in. Diameter, | 5 50 |
| No. 2 | Rod 15 in. Long, 7/16 to ½ in. Diameter, | 4 50 |

No. 00 Gutter Beader has two handles, so that the rod can be turned from both ends to prevent it from twisting

## Iron Bottom Gutter Beaders with Enclosed Rod.

| | | Each |
|---|---|---|
| No. A1 | Rod 60 in. Long, ⅞ to 1 in. Diameter, | $20 00 |
| No. 01 | Rod 42 in. Long, ¾ to ⅞ in. Diameter, | 9 00 |
| No. 03 | Rod 30 in. Long, ⅝ to ¾ in. Diameter, | 6 00 |
| No. 11 | Rod 20 in. Long, ⅝ to ¾ in. Diameter, | 4 00 |
| No. 12 | Rod 15 in. Long, ⅝ to ¾ in. Diameter, | 3.50 |



## Steel Gutter Beader Rods.

| | | Each |
|---|---|---|
| No. A1 | 60 in. Long, ⅞ to 1 in. Diameter, | $8 00 |
| No. 01 | 42 in. Long, ¾ to ⅞ in. Diameter, | 4 50 |
| No. 02 | 30 in. Long, ⅝ to ¾ in. Diameter, | 3 00 |
| No. 11 | 20 in. Long, ⅝ to ¾ in. Diameter, | 2 00 |
| No. 12 | 15 in. Long, ⅝ to ¾ in. Diameter, | 1 75 |

When ordering be sure to state the Diameter of Rod wanted

## Wood Roofing Folders.

### Common.

| | Each |
|---|---|
| Common, 30 in., | $3 50 |
| Common, 20 in., | 2 50 |
| Common, 14 in., | 2 50 |

### Improved.

| | Each |
|---|---|
| Improved, 30 in., with Gauge, | $5 00 |
| Improved, 20 in., with Gauge, | 3 50 |

## Roofing Cleaters and Nailers.

| | Each |
|---|---|
| Rapid Roofing Cleaters and Nailers, | $2 50 |

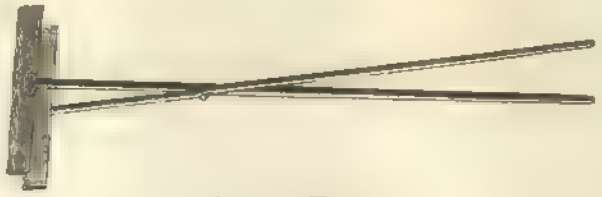
Adapted to tin and sheet metal roofs of various kinds and will nail flat seam roofs rapidly.

With one operation it folds the cleat and nails it to the sheathing

## Roofing Double Seamers.

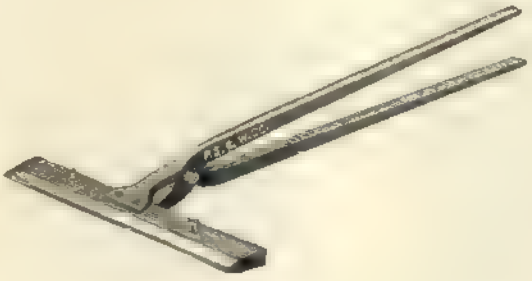
| | Each |
|---|---|
| Roofing Double Seamers, to Match Roofing Tongs, | $0 88 |

# Tinners' Tools and Machines.



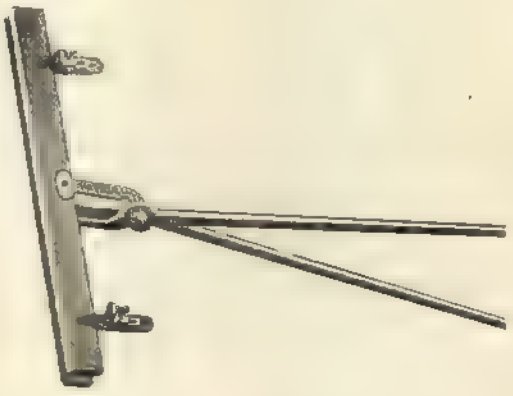
**Gutter Tongs.**

| | Per Pair |
|---|---|
| Gutter Tongs | $5.00 |



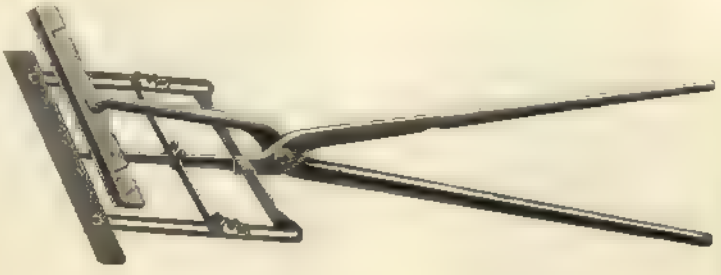
**Common Roofing Tongs.**

| | Per Pair |
|---|---|
| Common Roofing Tongs, Sizes ¼, ¾, 1, 1¼, 1½ and 1¾ in., | $3.00 |



**Improved Roofing Tongs.**

| | Per Pair |
|---|---|
| Improved Steel Roofing Tongs, Adjustable from ¾ to 3 in., | $4.00 |



**Reese's Patent Roofing Tongs.**

| | Per Pair |
|---|---|
| Reese's Roofing Tongs, with Adjustable and Removable Gauge, | $6 50 |

These Tongs will turn any edge from ⅛ to 10 inches by simply adjusting the thumb screw and sliding the gauge to the desired position. They are adapted to edging and bending all kinds of ordinary sheet metal. Can be used on No. 22 Iron.

**Burritt's Patent Double Seamers.**

| | Pet Set. |
|---|---|
| Burritt's Double Seamers, for Tin Roofing, in Sets of Two Pairs, One Common Gauge adapted to 1x1½ in. Tongs, and One Wide Gauge adapted to 1½x1½ in. Tongs, | $30.00 |

# Pieced Tin Ware.

**Powder Cans.**

IC Tin

| Nos. | 2 | 4 |
|---|---|---|
| Quarts, | 2 | 4 |
| Pounds, | 5 | 12½ |
| Inches, | 5⅛ | 6⅞ |
| Per Dozen, | $2.80 | 3.50 |

**Miners' Canteens.**

IC Tin.

| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Quarts, | ½ | ½ | 1 | 2 |
| Inches, | 4⅛ | 4⅞ | 6⅛ | 7⅛ |
| Per Dozen, | $1.60 | 1.80 | 2.20 | 2.80 |

**Miners' Squib Cases.**

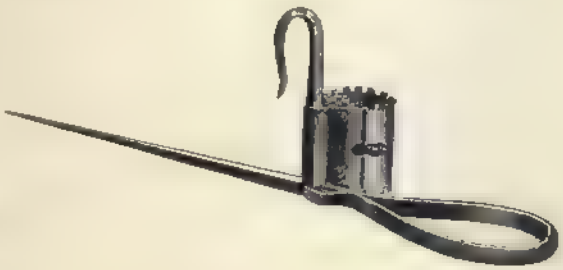
IC Tin.

| Nos. | 5 | 10 |
|---|---|---|
| Inches, | 1½x7 | 1⅝x7 |
| Per Dozen, | $0 90 | 1 20 |

**Miners' Lamps.**

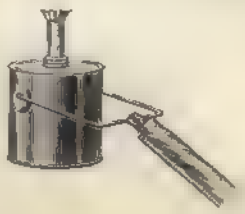
IX Tin.

| | Per Dozen. |
|---|---|
| No. 1—1⅝x2½ in., with One Hook, | $1.60 |
| No. 2—1⅝x2½ in., with Two Hooks, | 1.70 |



**Miners' Candlesticks.**

| | Per Dozen. |
|---|---|
| No. 15—Lake Superior Pattern, Steel, Hand Forged, | $6 00 |
| No. 25—O K Coppered Steel Wire, | $1.50 |



**Campaign Torches.**

| | Square Body, Double Swing. With Tin Tube, Wick and Stick. | | Round Body, Double Swing. With Tin Tube, Wick and Stick | |
|---|---|---|---|---|
| Nos. | 1 | 10 | 2 | 20 |
| Style, | Plain | Japanned | Plain | Japanned |
| Per Dozen, | $3.00 | 3.50 | $3.50 | 4.00 |

# Pieced Tin Ware.

## Lard Cans.

Western Pattern.

IC Tin, Inside Rimmed Cover, Drop Side Handles

| Nos. | 14 | 16 | 18 | 20 |
|---|---|---|---|---|
| Gallons, | 4 | 6 | 8 | 10 |
| Pounds, | 30 | 50 | 60 | 80 |
| Inches, | 10½x11½ | 11½x13½ | 12x15 | 13x18½ |
| Per Dozen, | $6.20 | 7.40 | 8.85 | 11.50 |

Western Pattern.

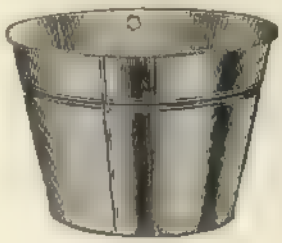
IX Tin, Inside Rim Cover, Drop Side Handles.

| Nos. | 24 | 26 | 28 | 30 |
|---|---|---|---|---|
| Gallons, | 4 | 6 | 8 | 10 |
| Pounds, | 40 | 50 | 60 | 80 |
| Inches. | 10½x11½ | 11½x13½ | 12x15 | 13x18½ |
| Per Dozen. | $7.50 | 8.50 | 10.00 | 13.00 |

## Lard Pails.

IC Tin, with Cover Over Outside.

| Pounds, | 3 | 5 | 10 |
|---|---|---|---|
| Per Dozen. | $1.60 | 2.00 | 3 00 |



## Sap Pails.

IC Tin, Flaring Pail Shape.

| Nos. | 08 | 010 | 012 | 014 |
|---|---|---|---|---|
| Quarts, | 8 | 10 | 12 | 14 |
| Inches. | 10½x7 | 11x8½ | 12x8½ | 13x8½ |
| Per Dozen. | $2.50 | 2.70 | 3.30 | 4.00 |

## Cook Pails.

IC Tin, Tin Bottom

| Nos. | 7 | 8 | 9 |
|---|---|---|---|
| Quarts, | 5 | 6 | 7 |
| Inches, | 9¾x6½ | 10⅝x6½ | 11¼x6½ |
| Per Dozen, | $2.20 | 2.60 | 3 10 |

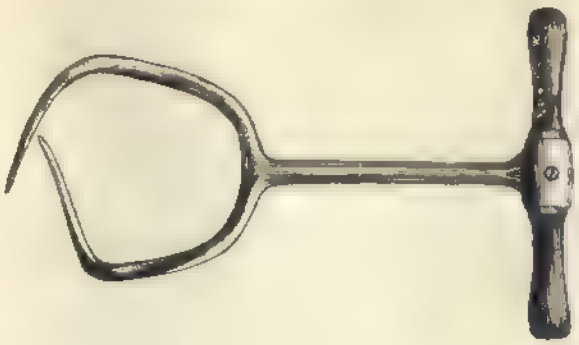
IX Tin, Tin Bottom

| Nos. | 70 | 80 | 90 |
|---|---|---|---|
| Quarts. | 5 | 6 | 7 |
| Inches. | 9¾x6½ | 10⅝x6½ | 11½x6½ |
| Per Dozen | $2 70 | 3.30 | 4 00 |

IX Tin, Copper Bottom.

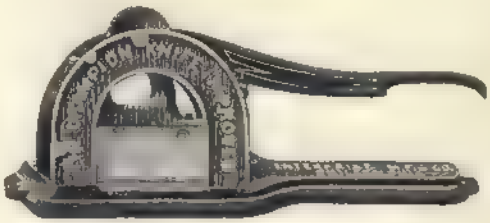
| Nos. | 700 | 800 | 900 |
|---|---|---|---|
| Quarts. | 5 | 6 | 7 |
| Inches. | 9¾x6½ | 10⅝x6½ | 11½x6½ |
| Per Dozen. | $4.50 | 5.30 | 6.20 |

# Fruit Augers.



No. 15—McCormick's Fruit Augers. Tinned. Each $12 00

## Tobacco Cutters.

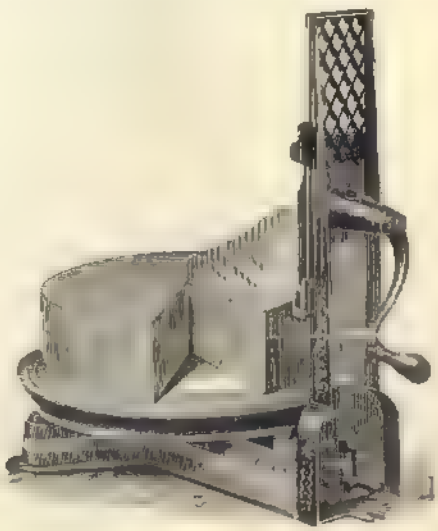


No. 1- Enterprise, Cuts Plug 4⅛ in. Wide. . . . . Each $1.75

## Dried Beef Cutters.

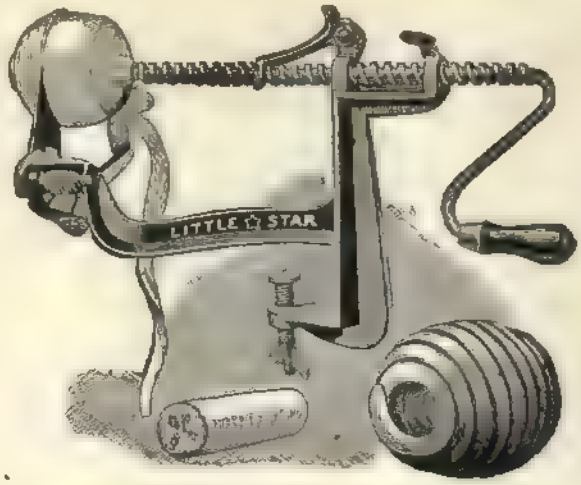
No. 23 -Enterprise, Improved Japanned Iron Frame $8 00 Each.

## Cheese Knives or Cutters.

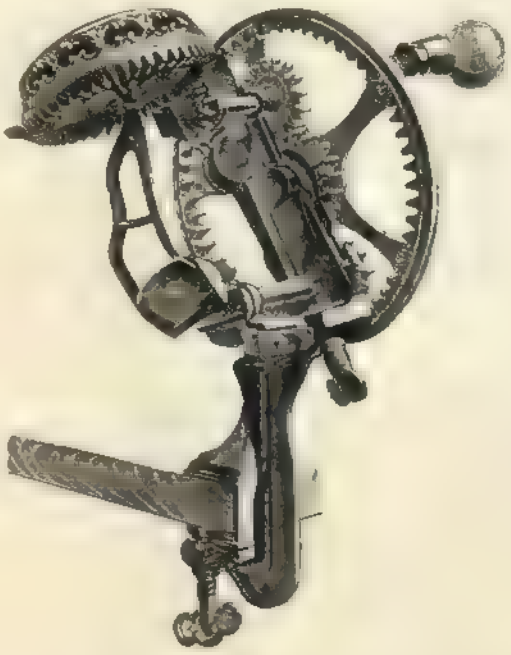


No. 126—Enterprise, Self-Gauging, with Cover, Each. $16.00

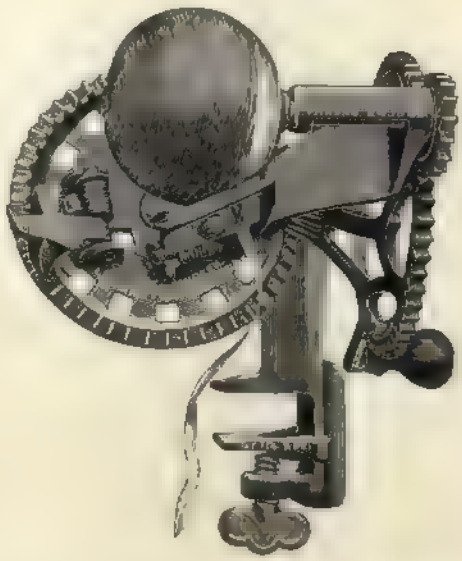
# Apple Parers.




No. 1—Little Star, Corers and Slicers, with Push-Off. . . Per Dozen. $9.50



No. 78—Read ng, with Automatic Push-Off, Per Dozen. $11.50



No. 2 Rocking Table, with Push-Off. Per Dozen $12 00

One Dozen in a Box.

# Tuyere Irons.

| | | Each |
|---|---|---|
| No. 1 | Clark's, for Light Work, | $2 00 |
| No. 2 | Clark's, for Medium Work, | 2 65 |
| No. 3 | Clark's, for Heavy Work | 3 15 |

No. 0—Duck's Nest, Weight 12 Lbs., . . Each $0.80

No. 1—Duck's Nest, Weight 16 Lbs., . . Each $1.00

| | | Per Lb. |
|---|---|---|
| No. 10 | Globe, with Plate, Weight 50 Lbs | $0.05 |
| No. 15 | Globe, without Plate, Weight 30 Lbs | 05 |

No. 20 Warren's, Weight 31 Lbs. Each $2.25

No. 30 Norton's Weight 27 Lbs. Each $2 25

# Blacksmiths' Bellows.

**Standard, Split Leather.**

| Inches. | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Each, | $10.00 | 11 00 | 12.00 | 13.00 | 14.00 | 16.00 | 18.00 | 20.00 | 23.00 | 27.00 | 32 00 |

**Extra Long, Grain Leather.**

| Inches. | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Each, | $12.00 | 13.00 | 14 00 | 15.00 | 17.00 | 19.00 | 21 00 | 24.00 | 28.00 | 34.00 | 40.00 | 45 00 | 50.00 | 60 00 |

## Moulders' Bellows.

**No. 10—Extra.**

| Inches. | 10 | 11 | 12 |
|---|---|---|---|
| Per Dozen, | $15 00 | 16.50 | 18.00 |

## Hand Bellows.

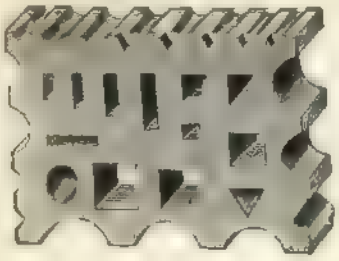
**No. 1 Extra.**

| Inches. | 6 | 7 | 8 | 9 |
|---|---|---|---|---|
| Per Dozen, | $10.00 | 11.00 | 12.00 | 13 00 |

**No. 5 French, White Wood.**

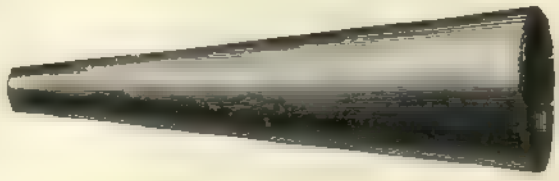
| Inches. | 6½ | 7½ | 8½ | 9½ |
|---|---|---|---|---|
| Per Dozen, | $8 00 | 9.00 | 12.00 | 16 00 |

## Swage Blocks.



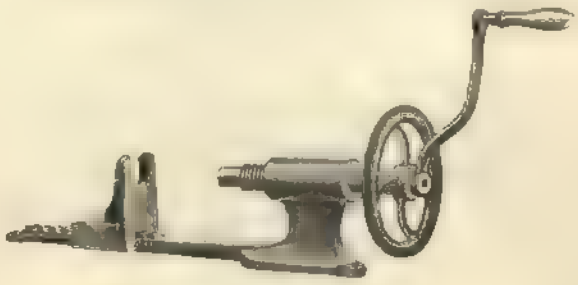
| | | Per Pound |
|---|---|---|
| No. 1 | 12 in. Square, Weight 100 Lbs., | $..... |
| No. 2 | 15 in. Square, Weight 150 Lbs., | ..... |

## Blacksmiths' Mandrels.



| | | Per Pound |
|---|---|---|
| No. 1 | —12 in. Base, 1½ to 2 in. Top, Height 50 in. Weight 200 to 225 Lbs., | $ ... |

## Blacksmiths' Tire Drills.



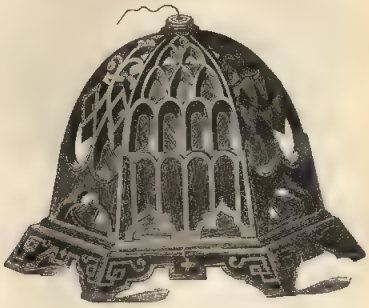
| | | Each |
|---|---|---|
| No. 1 | Blacksmiths' Tire Drills. | $3 00 |

## TWINE BOXES.

Patent Catch.

| No. | | Per dozen |
|---|---|---|
| **11,** | Japanned | 2 80 |
| **13,** | Copper Bronzed | 2.80 |

Half dozen in a box.



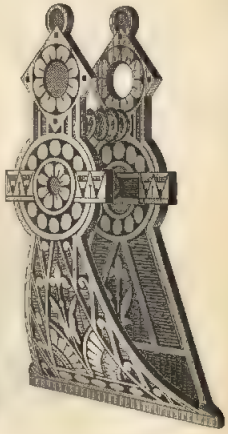
| No. | | Per dozen |
|---|---|---|
| **76,** | Berlin Bronzed | 7.50 |

## PAPER FYLES.

| No. | | Per dozen. |
|---|---|---|
| **24,** | Tuscan Bronzed | 1.20 |

| No. | | Per dozen |
|---|---|---|
| **38,** | Tuscan Bronzed | 1.70 |

| No. | | Per dozen |
|---|---|---|
| **55,** | Berlin Bronzed | 2.80 |



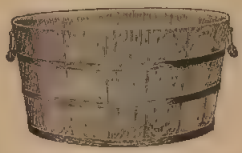
No. 240

| No. | | Per dozen |
|---|---|---|
| **532,** | American Bronzed | 1.30 |
| **240,** | Tuscan Bronzed | 1 40 |

No. 532 Horse Shoe Pattern

One dozen in a box.

# Wash Tubs.



**Cedar, Best Quality, Three Flat Steel Hoops.**

| Nos., | 1 | 2 | 3 |
|---|---|---|---|
| Code. | Kufbaars | Kullage | Kullen |
| Inches, | 25x11 | 23x10 | 17½x9 |
| Wt. Per Doz., lbs., | 165 | 124 | 97 |
| Per Dozen, | $13.50 | 12.00 | 10.50 |

SCHWABACHER HARDWARE CO.

**Galvanized Iron.**

Heavy Patent Handles, with Clips, Corrugated Bottoms.

| Nos., | 1 | 2 | 3 |
|---|---|---|---|
| Code. | Kulpis | Kumbuk | Kumish |
| Inches, | 20½x10½ | 22¾x11 | 24½x11 |
| Wt. Per Doz., lbs., | 84 | 90 | 98 |
| Per Dozen, | $11.00 | 12.00 | 14.00 |

**Galvanized Iron.**

With Improved Wrought Iron Stationary Wringer Attachments, Heavy Patent Handles with Clips, Corrugated Bottoms.

| Nos., | 11 | 22 | 23 |
|---|---|---|---|
| Code. | Kuneza | Kundiar | Kundelos |
| Inches, | 20½x10½ | 22¾x11 | 24½x11 |
| Wt. Per Doz., lbs., | 92 | 96 | 114 |
| Per Dozen, | $15.00 | 16.00 | 17.00 |

# Washing Machines.

Code Kundthun — Each

**Uncle Sam,** Cyprus Wood, Varnished, Tub 21x12 In. Inside, Corrugated Sides and Bottom, 9 In. Dasher, with Drain Plug, 15 In. Fly Wheel, Pull Lever Handle, Tub and Stand 38 In. High, Wrought Steel Hinges, Hasps and Lifting Handles, 3 Flat Steel Hoops, Weight 90 lbs. Each. $15.00

Dimensions of Tubs given are Diameter of Top and Depth.

## Ice Pick and Steak Hammers.

| | Per dozen |
|---|---|
| Sprague's Ice Pick and Steak Hammer | 3.20 |

One dozen in a box.

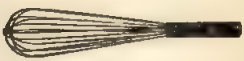
## Steak Hammers.

| No. | | Per dozen |
|---|---|---|
| 12, | "Sensible," Steel Hatchet, (as cut) | 3.00 |
| 2, | "P. S. & W." Tinned, Polished Handle | 3.30 |

## EGG BEATERS.

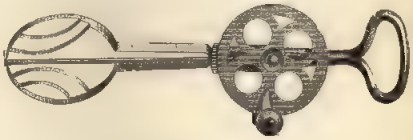
"Surprise," Egg Beaters — Per dozen .50

Spiral Egg Beaters — Per dozen .70



French Egg Whip, 12 in. long — Per dozen 7.40

"Lightning Express," Egg Beaters — Per dozen 2.40



"Dover," Egg Beaters, American — Per dozen 1.80

One dozen in a box.

## The "Handy" Egg Separator.

| | Per dozen |
|---|---|
| Porcelain Cup | 2.40 |

Place in top of cup, break egg into separator. The white of the egg will run out instantly without breaking the yelk.

## Ice Tongs.

No. 15, Steel.

| Opens | 12 | 16 | 24 inches. |
|---|---|---|---|
| Per dozen | 7.20 | 9.60 | 19.20 |

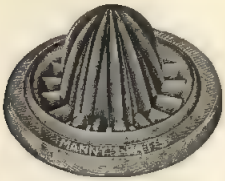
## LEMON SQUEEZERS.

| No. | | Per dozen |
|---|---|---|
| 4, | Malleable Iron, Tinned | 2.50 |

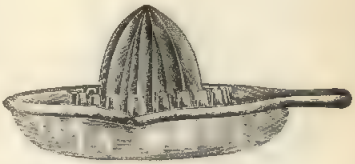
| | Each |
|---|---|
| Tinned on Stand with Clamp | 3.50 |

| No. | | Per dozen |
|---|---|---|
| 1, | Japanned, with detachable Glass Bowl | 7.00 |
| 2, | Japanned, with detachable Porcelain Bowl | 7.00 |
| | Glass Bowls for "King" Squeezers. | 2.20 |

### All Glass.

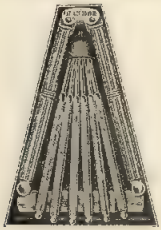


### All Glass, with Handle.



| | Per dozen |
|---|---|
| Lemon Juice Extractors, Small | 1.00 |
| Lemon Juice Extractors, Large, with Handle | 1.00 |

### Nut Crackers and Picks.



| | Per doz. sets |
|---|---|
| **Englewood Sets,** Crackers have patent spring | 5.00 |
| No. **15,** Wallace Bros., 6 Picks, 1 Crack | 6.00 |
| " **10,** " 6 Picks only | 2.60 |

### Nut Crackers Only.

| No. | | Per dozen |
|---|---|---|
| **3260,** | Bright Round Shank | 3.90 |
| **3270,** | Nickel Plated, Oval Shanks | 4.30 |
| **7409,** | " Spiral Oval Shanks | 4.60 |
| **3272,** | " " " | 5.50 |
| **55937,** | " Engraved Oak Handles | 24.80 |
| **90,** | " | .90 |

One dozen in a box. **Prices for full boxes.**

**"ELLIOT'S"** hand-forged Cheese Knives and Butter Spades are the very best made.

H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

# Wagon or Hay Scales.

**Howe Improved, Double Brass Beam, Graduated by 2½ Pound Marks, Sliding Poises.**

| | Each. |
|---|---|
| No. 270—Capacity 3 Tons, Platform 14x8 ft., Platform to Beam Rod 2 ft., | $145 00 |
| No. 268 - Capacity 4 Tons, Platform 14x8 ft., Platform to Beam Rod 2 ft., | 165 00 |
| No. 267 Capacity 5 Tons, Platform 14x8 ft., Platform to Beam Rod 2 ft., | 200.00 |
| No. 265—Capacity 6 Tons, Platform 14x8 ft., Platform to Beam Rod 2 ft. 4 in., | 225.00 |
| No. 260—Capacity 6 Tons, Platform 22x8 ft., Platform to Beam Rod 2 ft. 4 in. | 265 00 |
| No. 259—Capacity 8 Tons, Platform 14x8 ft., Platform to Beam Rod 2 ft. 4 in., | 270 00 |
| No. 254—Capacity 8 Tons, Platform 22x8 ft., Platform to Beam Rod 2 ft. 4 in., | 300.00 |
| No. 253 Capacity 10 Tons, Platform 14x8 ft., Platform to Beam Rod 2 ft. 4 in., | 300 00 |
| No. 249 Capacity 10 Tons, Platform 20x8 ft., Platform to Beam Rod 2 ft. 4 in., | 330 00 |

Timber Work and Foundation for any of the above Scales to be furnished by the purchaser

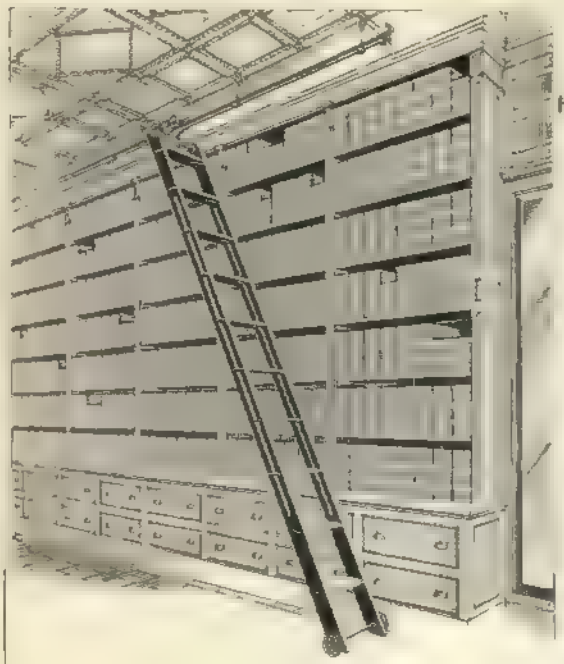
# Miner and Transportation Scales.

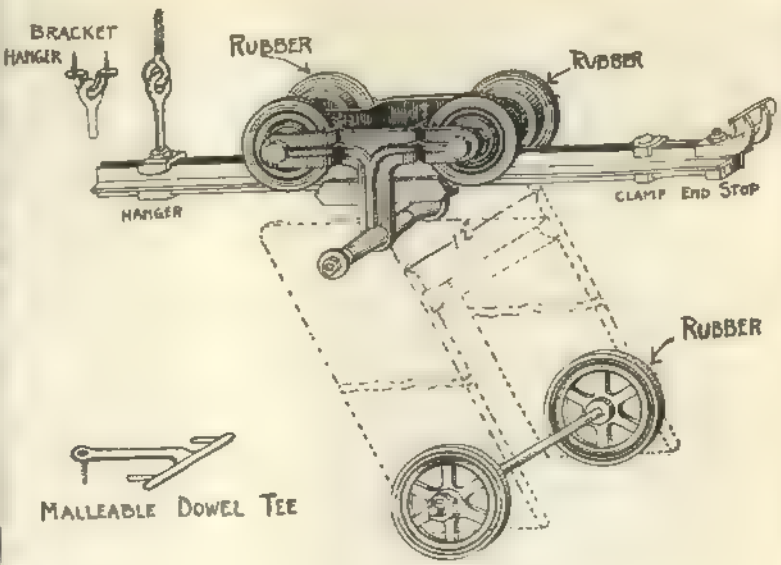
**Howe Improved, Single Brass Beam, Graduated by 2½ Pound Marks, Sliding Poise.**

| | Each. |
|---|---|
| No. 238—Capacity 2 Tons, Platform 6x4 ft., Platform to Beam Rod 3 ft., | $130 00 |
| No. 235 Capacity 2 Tons, Platform 8x4 ft., Platform to Beam Rod 3 ft., | 135 00 |
| No. 234—Capacity 3 Tons, Platform 6x4 ft., Platform to Beam Rod 3 ft., | 140 00 |
| No. 232—Capacity 3 Tons, Platform 6x5 ft., Platform to Beam Rod 2 ft. 6 in., | 155 00 |
| No. 230—Capacity 4 Tons, Platform 6x5 ft., Platform to Beam Rod 2 ft. 6 in., | 160 00 |
| No. 228 Capacity 4 Tons Platform 8x6 ft Platform to Beam Rod 2 ft | 165 00 |

Above prices are exclusive of Timber and Foundation These Scales are designed for weighing small cars of coal ore, etc., and are also used at factories for weighing heavy machinery and other articles.

# Rolling Shelf Ladder.









## Myers' Trolley Rolling Shelf Ladders.

| | Each. |
|---|---|
| Ladder and Trolley, Complete. | $16 00 |
| | Per Foot. |
| Track, Complete with Hangers. | $0.30 |

## Description.

**The Ladder** is constructed of the best, clear Georgia Pine, nicely finished, filled and varnished: has open panel sides, 5 inches wide with 5-inch steps. Each step is supported at each end with special malleable dowel tee, which makes the strongest construction possible. The width of the ladder is 12 inches.

**The Trolley** is self-adjusting and made of malleable iron fitted with turned steel bearings and 3-inch anti-rattler wheels, turned and bored on lathe and fitted with **rubber tires.**

**The Track** is double ring steel rail which is very neat and strong and is suspended from ceiling by means of lag screws either pointed or right angle or by flanged plates and wood screws. By this means the track is placed close to the ceiling and can be evened on an uneven ceiling without the least trouble and without any blocking or bridging, as is the case in many other tracks.

**The Floor Travelers** are 5 inches in diameter, composed of metal sides with **rubber cushion tires** clamped in such a position as to be impossible to get off or come loose. These wheels are placed on a steel axle which revolves with one of the wheels, the other running loose. In this manner the ladder will adjust itself to the floor. With this style trolley **which is noiseless,** a great objection is overcome in other ladders.

When the ladder is not the proper length for sending out, cut off at the bottom and replace the lower traverser shaft by boring new holes at the proper point so as to have the steps of the ladder level.

## Directions for Fitting Store Ladders.

To find the required length of store ladder for any room, substract from the height of the room 14 inches, this being the amount of space required by hangers, track and trolley, and tip-toe, the remainder by one and one-tenth, the result will be the height of the ladder from the hole at top to bottom of ladder.

# Ice Cream Freezers.

## White Mountain.

Strong Waterproof Second Growth White Pine Tub, Round with Heavy Galvanized Iron Hoops; Gearing completely Covered; Cans Full Size and Made of the Best Tin Plate; Beaters Malleable Iron, Tinned; All Castings Attached to the Tub Well Galvanized to Prevent Rusting; Celebrated Duplex Dasher, with Double Self-Adjusting Wood Scraping Bars, Triple Motion.

| Capacity, Quarts, | 2 | 3 | 4 | 6 | 8 | 10 | 12 | 15 | 20 | 25 |
|---|---|---|---|---|---|---|---|---|---|---|
| Code, | Laufkerb | Laufleiter | Laufmagd | Laufpass | Laufplatz | Laufrad | Laufstock | Laufsalt | Laughing | Laughter |
| Weight Each, lbs., | 15 | 18 | 20 | 23 | 26 | 33 | 52 | 58 | 65 | 85 |
| Each, | $3.50 | 4.00 | 5.00 | 6.00 | 7.50 | 10.00 | 12.00 | 15.00 | 20.00 | 25.00 |

Code Laugold — Each

**White Mountain Junior,** Capacity 1 Pint, . . . . . $2.50

Weight 4 lbs. Each.

## White Mountain Confectioners'.

Triple Action, with Fly Wheel.

| Capacity, Quarts, | 15 | 20 | 25 |
|---|---|---|---|
| Code, | Laugona | Lauling | Laumelli |
| Weight Each, lbs., | 70 | 75 | 125 |
| Each, | $21.00 | 27.50 | 33.50 |

## Arctic.

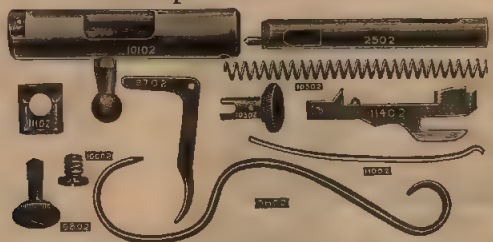
With Crank, Tinned Malleable Beaters, Covered Gears.

| Capacity, Quarts | 2 | 3 | 4 |
|---|---|---|---|
| Code, | Launder | Laundry | Launiger |
| Weight Each, lbs., | 15 | 18½ | 22 |
| Each, | $2.75 | 3.00 | 4.00 |

| Capacity, Quarts, | 6 | 8 |
|---|---|---|
| Code, | Launlach | Laurace |
| Weight Each, lbs., | 25 | 29 |
| Each, | $5.00 | 6.00 |

Has a Strong Waterproof Second Growth White Pine Tub; Gear Frame Detachable; Gears Covered; Best Charcoal Tin Plate Can, Tinned, with Tinned Cast Iron Cover; Tinned Beater, Self-Adjusting Double Wood Scraping Bar. All surfaces that come in contact with the Cream are Coated with Tin.

# Component Parts.




## Model 1902 Winchester Single Shot Rifles.

| | | | |
|---|---|---|---|
| 102 | Barrel | $ 3 | 45 |
| 3002 | Butt Stock | 1 | 45 |
| 3102 | Butt Plate | | 20 |
| 3202 | Butt Plate Screws (2), each. | | 05 |
| 9902 | Guard Bow | | 25 |
| 9702 | Guard Bow Screws (3), each. | | 05 |
| 8702 | Trigger | | 20 |
| 8802 | Trigger Pin | | 05 |
| 9802 | Stock Stud Screw | | 05 |
| 9902 | Stock Stud Screw Stop | $ 0 | 05 |
| 10002 | Stock Stud Screw Escutcheon. | | 10 |
| 2902 | Butt Stock complete | 2 | 60 |
| 10102 | Bolt with Handle | | 70 |
| 2502 | Firing Pin | | 60 |
| 10202 | Firing Pin Guide Pin | | 05 |
| 10302 | Firing Pin Head | | 10 |
| 10402 | Firing Pin Head Pin | | 05 |
| 10502 | Firing Pin Spring | | 10 |
| 11302 | Bolt complete | $ 1 | 60 |
| 10602 | Sear and Extractor | | 35 |
| 10702 | Friction Pin | | 05 |
| 11402 | Sear and Extractor complete. | | 40 |
| 10802 | Front Sight | | 20 |
| 10902 | Rear Sight | | 15 |
| 11002 | Sear Spring | | 05 |
| 11102 | Stock Stud | | 15 |

## Model 1904 Winchester Single Shot Rifles.

The Bolt, Firing Pin, Firing Pin Head, Sear and Extractor, Sear Spring, Trigger, Stock Stud and Firing Pin Sprng of the Model 1904 Rifle are the same as the Model 1902 Rifle. They are shown above. Parts special to the Model 1904 Rifle are listed below.

| | | | |
|---|---|---|---|
| 104 | Barrel | $ 4 | 50 |
| 3004 | Butt Stock | 2 | 60 |
| 3104 | Butt Plate | | 60 |
| 3204 | Butt Plate Screws (2), each. | | 05 |
| 9804 | Guard Bow | | 30 |
| 9704 | Guard Bow Screws (3), each. | | 05 |
| 8704 | Trigger | | 20 |
| 8804 | Trigger Pin | | 05 |
| 9804 | Stock Stud Screw | | 05 |
| 9904 | Stock Stud Screw Stop | $ 0 | 05 |
| 10004 | Stock Stud Screw Escutcheon. | | 10 |
| 2904 | Butt Stock complete | 3 | 60 |
| 10704 | Bolt with Handle | | 70 |
| 2504 | Firing Pin | | 60 |
| 11204 | Firing Pin Guide Pin | | 05 |
| 10304 | Firing Pin Head | | 10 |
| 10404 | Firing Pin Head Pin | | 05 |
| 10504 | Firing Pin Spring | | 10 |
| 11304 | Bolt complete | $ 1 | 60 |
| 10604 | Sear and Extractor | | 35 |
| 10704 | Friction Pin | | 05 |
| 11404 | Sear and Extractor complete. | | 40 |
| 10804 | Front Sight | | 20 |
| 10904 | Rear Sight | | 60 |
| 11004 | Sear Spring | | 05 |
| 11104 | Stock Stud | | 15 |

## Model 1903 Winchester Automatic Rifles.

| | | | |
|---|---|---|---|
| 103 | Barrel | $ 6 | 50 |
| 14503 | Bolt | 4 | 65 |
| 11603 | Bolt Roll | | 05 |
| 2503 | Firing Pin | | 05 |
| 10603 | Firing Pin Spring | | 05 |
| 2603 | Firing Pin Stop Pin | | 05 |
| 2203 | Extractor | | 40 |
| 14703 | Extractor Plunger and Spring | | 10 |
| 14803 | Extractor Plunger Spring | | 05 |
| 14903 | Extractor Plunger Stop Screw | | 05 |
| 11303 | Bolt complete | 6 | 90 |
| 15103 | Bolt Spring | | 10 |
| 15003 | Bolt Guide Rod | $ 0 | 25 |
| 3003 | Butt Stock | 2 | 50 |
| 3103 | Butt Plate | 1 | 00 |
| 3203 | Butt Plate Screws (2), each. | | 05 |
| 2903 | Butt Stock complete | 3 | 80 |
| 10203 | Butt Stock Nut | | 15 |
| 19303 | Butt Stock Nut Washer | | 05 |
| 20703 | Cartridge Cut-off | | 25 |
| 20803 | Cartridge Cutoff Spring | | 05 |
| 21003 | Cartridge Cut-off complete | | 30 |
| 20903 | Cartridge Cut-off Pin | | 05 |
| 5803 | Forearm | 1 | 00 |
| 5903 | Forearm Tip | $ 0 | 85 |
| 6003 | Forearm Tip Screws (2), each | | 05 |
| 6103 | Forearm Tip Tenon | | 20 |
| 10803 | Front Sight | | 20 |
| 6503 | Hammer | 2 | 00 |
| 15003 | Hammer Spring Guide Rod | | 20 |
| 18003 | Hammer Spring Guide Rod Pin | | 05 |
| 13103 | Hammer Pin | | 05 |
| 14303 | Hammer Spring | | 10 |
| 19403 | Hammer Spring Abutment | | 10 |
| 19503 | Hammer Spring Abutment Pin | | 05 |
| 1903 | Magazine Tube, Outer, Throat and Tang | | 80 |
| 19003 | Magazine Tube, Inner | | 05 |
| 7703 | Magazine Plug | | 25 |
| 19703 | Magazine Plug Pin | | 05 |
| 7903 | Magazine Spring | | 15 |
| 7503 | Magazine Follower | | 05 |
| 20003 | Magazine Tube, Inner, complete | 1 | 25 |
| 19903 | Magazine Friction Spring | | 10 |
| 20003 | Magazine Charger complete | | 50 |
| 19903 | Operating Sleeve | | 70 |
| 17103 | Operating Sleeve Pin | | 15 |
| 17203 | Operating Sleeve Pin Pin | | 05 |
| 17103 | Operating Sleeve Spring | | 05 |
| 11003 | Rear Sight | | 55 |
| 20103 | Rear Sight Adjusting Screw | | 05 |
| 20203 | Rear Sight complete | | 80 |
| 8203 | Receiver | 7 | 00 |
| 4803 | Ejector | | 50 |
| 21103 | Ejector Screw | | 05 |
| 13703 | Take Down Screw Bushing | | 20 |
| 8103 | Receiver complete | 7 | 75 |
| 11903 | Sear | | 30 |
| 11803 | Sear Spring | | 05 |
| 15603 | Take Down Screw | | 15 |
| 15803 | Take Down Screw Stop Pin | | 05 |
| 20303 | Take Down Screw complete | | 20 |
| 17403 | Take Down Screw Lock | | 50 |
| 17403 | Take Down Screw Lock Pin | | 05 |
| 17503 | Take Down Screw Lock Spring | | 05 |
| 20103 | Thrust Pin | | 05 |
| 8703 | Trigger | | 50 |
| 8803 | Trigger Pin | | 05 |
| 8903 | Trigger Spring | | 10 |
| 17903 | Trigger Lock | | 20 |
| 18003 | Trigger Lock Plunger and Spring | | 10 |
| 18103 | Trigger Lock Plunger Spring | | 05 |
| 20503 | Wiping Rod (Special) | | 15 |

# Component Parts.

Model 1895 Winchester Repeating Rifles.

| | | |
|---|---|---|
| 195 | Barrel, Round | $ 6 50 |
| 205 | Barrel, Round, Nickel Steel, all Calibers except .30 and .303 | 10 00 |
| 795 | Barrel, Round, Nickel Steel, .30 and .303 Calibers | 13 00 |
| 395 | Barrel, Octagon | 8 00 |
| 495 | Barrel, Half Octagon | 8 50 |
| 595 | Barrel, Carbine, Nickel Steel | 12 00 |
| 695 | Barrel, Musket | 15 00 |
| 2295 | Breech Bolt, Extractor, and Pin | 3 80 |
| 2305 | Extractor | 25 |
| 2495 | Extractor Pin | $ 0 05 |
| 2595 | Firing Pin | 50 |
| 28195 | Firing Pin Lock | 20 |
| 28295 | Firing Pin Recoil Lock | 20 |
| 28395 | Firing Pin Lock and Firing Pin Recoil Lock Pin | 05 |
| 28495 | Firing Pin Lock and Firing Pin Recoil Lock Spring | 05 |
| 28595 | Firing Pin Lock and Firing Pin Recoil Lock Screw | 05 |
| 2195 | Breech Bolt complete | 4 35 |
| 3095 | Butt Stock | 1 80 |
| 3195 | Butt Plate | $ 0 80 |
| 3295 | Butt Plate Screws (2), each | 05 |
| 2195 | Butt Stock complete | 2 70 |
| 349- | Carrier | 75 |
| 3895 | Carrier Screw | 05 |
| 14395 | Carrier Spring | 60 |
| 3695 | Carrier Stop Pin | 05 |
| 28695 | Carrier Cradle | 35 |
| 28795 | Carrier Cradle Pin | 05 |
| 28895 | Carrier Cam Lever | 25 |
| 28995 | Carrier Cam Lever Pin | 05 |
| 485- | Ejector | 40 |
| 5095 | Ejector Spring | 05 |
| 4795 | Ejector complete | 45 |
| 2979 | Ejector Stop Pin | 05 |
| 5295 | Finger Lever | 3 10 |
| 29495 | Finger Lever Lock | 1 60 |
| 29595 | Finger Lever Lock Joint Pin | 10 |
| 29695 | Finger Lever Lock Plunger | 05 |
| 29795 | Finger Lever Lock Plunger Spring | 05 |
| 5195 | Finger Lever complete | 4 90 |
| 22695 | Finger Lever Catch | 25 |
| 29495 | Finger Lever Catch Plunger | 05 |
| 29595 | Finger Lever Catch Plunger Spring | 05 |
| 5695 | Finger Lever Pin | 05 |
| 5895 | Forearm | 1 35 |
| 14095 | Forearm Stud Screw Escutcheon | 05 |
| 28095 | Forearm complete | 1 40 |
| 13895 | Forearm Stud | 15 |
| 13995 | Forearm Stud Screw | 05 |
| 6395 | Hammer | 60 |
| 1419- | Hammer Roll | 10 |
| 14795 | Hammer Roll Pin | 05 |
| 6295 | Hammer complete | 70 |
| 8495 | Hammer Screw | 05 |
| 17095 | Link | 1 60 |
| 21295 | Link Pin | 05 |
| 29695 | Locking Bolt with Cartridge Stop and Pins (2) | 1 30 |
| 7095 | Main Spring | 30 |
| 7195 | Main Spring Screw | 05 |
| 7295 | Main Spring Strain Screw | 05 |
| 19195 | Magazine | 4 60 |
| 29795 | Magazine Tip Screw | 05 |
| 8295 | Receiver | 9 00 |
| 11695 | Sear | 25 |
| 11795 | Sear Pin | 05 |
| 11895 | Sear Spring | 10 |
| 11995 | Sear Spring Screw | 05 |
| 8795 | Trigger | 25 |
| 8895 | Trigger Pin | 05 |
| 9195 | Upper Tang Screw | 10 |

Winchester Single Shot Rifles.

| | | |
|---|---|---|
| 1 | S.S. | Barrel, Round, Nos. 1, 2, and 3 | $ 7 00 |
| 2 | S.S. | Barrel, Round, No. 4 | 9 00 |
| 3 | S.S. | Barrel, Round, No. 5 | 12 00 |
| 4 | S.S. | Barrel, Round, Nickel Steel | 10 00 |
| 5 | S.S. | Barrel, Octagon, Nos. 1, 2, and 3 | 8 50 |
| 6 | S.S. | Barrel, Octagon, No. 4 | 10 50 |
| 7 | S.S. | Barrel, Octagon, No. 5 | 13 50 |
| 8 | S.S. | Barrel, Half Octagon, Nos. 1, 2, and 3 | 9 00 |
| 9 | S.S. | Barrel, Half Octagon, No. 4 | 11 00 |
| 10 | S.S. | Barrel, Half Octagon, No. 5 | 14 00 |
| 298 | S.S. | Breech Block | $ 1 00 |
| 25 | S.S. | Firing Pin | 30 |
| 258 | S.S. | Firing Pin Stop Screw | 05 |
| 21 | S.S. | Breech Block complete | 1 35 |
| 30 | S.S. | Butt Stock | 1 80 |
| 31 | S.S. | Butt Plate | 80 |
| 32 | S.S. | Butt Plate Screws (2), each | 05 |
| 29 | S.S. | Butt Stock complete | 2 70 |
| 50 | S.S. | Ejector Spring, .22 Caliber Rim Fire only | 25 |
| 289 | S.S. | Ejector Spring Screw | 05 |
| 28 | S.S. | Extractor | 40 |
| 58 | S.S. | Forearm | $ 1 35 |
| 146 | S.S. | Forearm Stud Screw Escutcheon | 05 |
| 280 | S.S. | Forearm complete | 1 40 |
| 138 | S.S. | Forearm Stud | 15 |
| 139 | S.S. | Forearm Stud Screw | 05 |
| 52 | S.S. | Finger Lever | 1 65 |
| 56 | S.S. | Finger Lever Pin | 05 |
| 57 | S.S. | Finger Lever Pin Stop Screw | 05 |
| 270 | S.S. | Finger Lever Plunger | 05 |
| 271 | S.S. | Finger Lever Plunger Spring | 05 |
| 63 | S.S. | Hammer | 90 |
| 440 | S.S. | Hammer Fly | 10 |
| 441 | S.S. | Hammer Fly Pin | 5 |
| 62 | S.S. | Hammer complete | 1 05 |
| 131 | S.S. | Hammer Pin | 15 |
| 143 | S.S. | Hammer Spring | 15 |
| 272 | S.S. | Knock-off | 25 |
| 273 | S.S. | Knock-off Pin | 05 |
| 274 | S.S. | Knock-off Stop Pin | 05 |
| 275 | S.S. | Knock-off Operating Pin | 05 |
| 276 | S.S. | Knock-off Spring | 05 |
| 277 | S.S. | Knock-off Spring Pin | 05 |
| 278 | S.S. | Knock-off Spring Screw | 05 |
| 279 | S.S. | Knock-off Spring Screw Nut | 05 |
| 144 | S.S. | Lower Tang Screw | 05 |
| 130 | S.S. | Link | 15 |
| 212 | S.S. | Link Pin, Long or Short, each | 05 |
| 82 | S.S. | Receiver with Tang | 6 00 |
| 83 | S.S. | Lower Tang | 1 00 |
| 234 | S.S. | Side Tang Screws (2), each | 05 |
| 81 | S.S. | Receiver complete | 7 00 |
| 116 | S.S. | Sear | 25 |
| 117 | S.S. | Sear Pin | 05 |
| 118 | S.S. | Sear Spring | 05 |
| 119 | S.S. | Sear Spring Screw | 05 |
| 87 | S.S. | Trigger | 50 |
| 88 | S.S. | Trigger Pin | 05 |
| 91 | S.S. | Upper Tang Screw | 10 |

# Liquid Glue.

Le Page's.

**Family.**

| | Per Dozen |
|---|---|
| **No. 10** In One Ounce Bottles, | $1.20 |
| **No. 11**—In Two Ounce Bottles, | 1.80 |

One Dozen in a Box, Twelve Dozen in a Case.

| | Per Dozen |
|---|---|
| **No. 12**—In Half Gill Cans, | $1.80 |
| **No. 13**—In One Gill Cans, | 2.40 |

One Dozen in a Box, Three Dozen in a Case.

**Mechanics'.**

| | Per Dozen |
|---|---|
| **No. 14**—In Half Pint Cans. | $3.25 |
| **No. 15**—In One Pint Cans, | 5 50 |
| **No. 16**—In One Quart Cans, | 9 50 |
| **No. 17**—In Half Gallon Cans. | 16 00 |
| **No. 18**—In One Gallon Cans, | 30 00 |

No. 14, Two Dozen; Nos. 15 and 16, One Dozen; Nos. 17 and 18, Half Dozen in a Case

| | Per Case |
|---|---|
| **No. 20**—In Cases containing 2 Dozen No. 10 and 1 Dozen No. 11, with Display Stand, | $4 20 |

# Window Glass.

**Revised List Adopted January 21st, 1901.**

Per Box of 50 Square Feet

| SIZES | United Inches | Single Strength | | Double Strength | |
|---|---|---|---|---|---|
| | | AA | A | AA | A |
| 6x8 to 10x15 in. | 25 | $32.00 | $26.75 | $42.75 | $37 50 |
| 11x14 / 12x13 to 14x20 in., | 34 | 33.50 | 28.00 | 46 75 | 41 50 |
| 10x26 to 16x24 in., | 40 | 36.00 | 30.00 | 52.00 | 45 50 |
| 18x22 / 20x20 to 20x30 in., | 50 | 37.50 | 31.75 | 56 00 | 49.50 |
| 15x36 to 24x30 in., | 54 | 38 75 | 32 75 | 57 50 | 50 75 |
| 26x28 to 24x36 in., | 60 | 40 00 | 34 75 | 58 75 | 52 00 |
| 26x34 / 28x32 / 30x30 to 30x40 in., | 70 | 42 75 | 38 50 | 62 75 | 56.00 |
| 32x38 / 34x36 to 30x50 in., | 80 | 48 75 | 44 50 | 68.00 | 61 50 |
| 30x52 to 30x54 in., | 84 | 52 00 | 47 50 | 69 50 | 62 75 |
| | 90 | | | 73 50 | 66 75 |
| | 94 | .... | ... | 74 75 | 68.00 |
| | 100 | .. | . .. | 88 00 | 80 00 |
| | 105 | ..... | .... | 94 75 | 86 75 |
| | 110 | | . . | 105 50 | 97 50 |
| | 115 | ... | .... | 118 75 | 108 00 |
| | 120 | . | ... | 140 00 | 126 75 |
| | 125 | .... | . . | 153 50 | 140 25 |
| | 130 | .. . | . ... | 167 00 | 153 75 |

An additional 10 per cent will be charged for all Glass more than 40 inches wide. All sizes over 52 inches in length, and not making more than 81 United inches, will be charged in the 84 united inches bracket. All Glass 54 inches wide or wider, not making more than 118 united inches, will be charged in the 120 united inches bracket.

## Putty.

| | Per Pound |
|---|---|
| Extra Quality, In 25 Pound Cans, | $0.04½ |
| Extra Quality In 50 Pound Cans, | .04½ |
| Extra Quality, in Bladders, | .04 |

Three Hundred Pounds in a Barrel

## Zinc Glaziers' Points.

No. 2—Sharps

No. 2—Triangular

| | Per Dozen Papers |
|---|---|
| No. 2—Sharps, in ¼ lb. Papers, | $0.80 |
| No. 2—Sharps, in ½ lb. Papers, | 1.60 |
| No. 2 Triangular, in ¼ lb. Papers, | .80 |
| No. 2—Triangular, in ½ lb. Papers, | 1.60 |

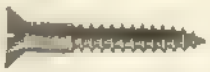
# Wood Screws.

## Round Head, Blued.

Revised List January 1, 1900.

| 3/8 IN. | | 5/8 IN. | | 3/4 IN. | | 1 IN. | | 1 1/4 IN. | | 1 3/4 IN. | | 2 1/4 IN. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per Gross. | | Per Gross. | | Per Gross. | | Per Gross. | | Per Gross. | | Per Gross. | | Per Gross. | |
| No. 2—$ 0 63 | | No. 4—$ 0.63 | | No. 9—$ 0 92 | | No. 8—$ 0 98 | | No. 12—$ 1.4 | | 8 $ 1 10 | | No. 10 $ 1 7 | |
| " 3— .63 | | " 5 - 6 | | 10 9 | | 9 1 05 | | 13 1 | | 9 1 15 | | 11 1 85 | |
| " 4— 63 | | " 6 72 | | | | 10 1 15 | | 14 1 3 | | 10 1 50 | | 12 2 00 | |
| " 5— 63 | | " 7 78 | | 7/8 IN | | 11 1 20 | | | | 1 1 60 | | 13 2 20 | |
| | | 8 85 | | | | 12 1 2 | | | | 12 1 70 | | 1 2 45 | |
| | | | | No | | 14 1 1 | | | | 1 1 85 | | | |
| | | | | " | | | | | | 11 2 0 | | | |
| 1/2 IN | | 3/4 IN | | " | | | | 1 1/2 IN | | | | | |
| No 2 $ 6 | | | $ 0 63 | " | | | | No 7 $ 1 10 | | | | 2 1/2 IN | |
| " 3 6 | | | 1 | " | | 1 1/4 IN | | " 8 1 | | | | | |
| " 4 6 | | 1 1 | | " | | | | " 9 1 2 | | 2 IN | | No 9 $ 2 00 | |
| " 5 61 | | " 2 | | 1 IN | | 6 $ 0 98 | | " 10 1 3 | | | | 10 2 40 | |
| " 6 6 | | 6 2 | | | | " 1 05 | | 11 1 | | 8 $ 1 50 | | " 11 2 15 | |
| " 7 7 | | 2 8 | | 7 $ 0 8 | | 8 1 1 | | " 1 | | " 1 | | 12 2 25 | |
| " 8 8 | | 8 8 | | 6 87 | | 9 1 15 | | 15 1 | | 11 1 50 | | 1 2 40 | |
| | | | | " 9 | | 10 1 20 | | 1 | | 12 1 80 | | " 11 2 60 | |
| | | | | | | 11— 1 30 | | 6 2 | | 1 " | | 12 3 10 | |

## Flat Head, Japanned.



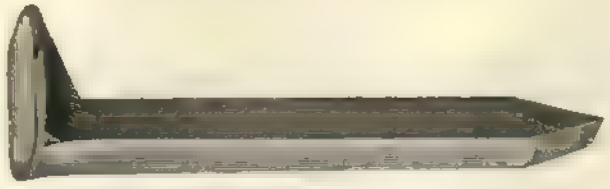
Revised List January 1, 1900.

| 3/4 IN. | | 7/8 IN. | | 1 IN. | | 1 1/4 IN. | | 1 1/8 IN. | |
|---|---|---|---|---|---|---|---|---|---|
| Per Gross. | | Per Gross. | | Per Gross. | | Per Gross. | | Per Gross. | |
| No 6—$ 0.77 | | No. 7—$ 0.87 | | No. 8—$ 0.98 | | No. 8—$ 1.10 | | No. 10—$ 1.30 | |
| " 7— .82 | | " 8— .92 | | " 9— 1.05 | | " 9— 1 15 | | " 11— 1 40 | |
| " 8 .88 | | " 9— .95 | | " 10— 1 15 | | " 10 1 2 | | " 12 1 55 | |
| | | " 10 1 05 | | " 11— 1.20 | | " 11 1 3 | | " 13 1 70 | |
| | | | | | | " 12 1 0 | | " 14 1 90 | |
| | | | | | | " 13 1 55 | | " 15 2 20 | |

## Flat and Round Head, Nickel Plated.

| 3/8 IN | | 5/8 IN. | | 3/4 IN. | | 1 IN. | | 1 1/4 IN. | | 1 1/2 IN | | 1 3/4 IN | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per Gross. | | Per Gross. | | Per Gross. | | Per Gross. | | Per Gross. | | Per Gross. | | Per Gross. | |
| No 4—$ 0 63 | | No 4 $ 0 63 | | 4 $ 0 8 | | No 6—$ 0.87 | | No. 8—$ 1.10 | | No. 9—$ 1.25 | | No. 10—$ 1.50 | |
| " 5— 63 | | " 5— 63 | | 8 88 | | " 7— 93 | | " 9— 1.15 | | " 10— 1.30 | | " 11— 1.60 | |
| " | | " 6— 72 | | 9 12 | | " 8— 98 | | " 10— 1.20 | | " 11— 1.40 | | " 12— 1.70 | |
| 1/2 IN | | 7 78 | | | | " 9 1 05 | | " 11— 1 30 | | " 12— 1.55 | | " 14— 2 05 | |
| | | | | 5/8 IN | | " 10— 1 15 | | " 12— 1.40 | | " 13— 1 7 | | | |
| No. 4—$ 0 65 | | 3/4 IN. | | | | " 11— 1.20 | | | | " 14— 1.90 | | 2 IN. | |
| " 5— 64 | | | No. | 6—$ 0.82 | | " 12— 1.25 | | | | | | | |
| " 6— 66 | No. | 4—$ 0 65 | " | 7— .87 | | | | | | | | No. 11—$ 1.70 | |
| | " | 5— .70 | " | 8— .92 | | | | | | | | " 12— 1.80 | |
| | " | 6 77 | " | 9— .95 | | | | | | | | " 14— 2 35 | |

# Railroad Spikes.

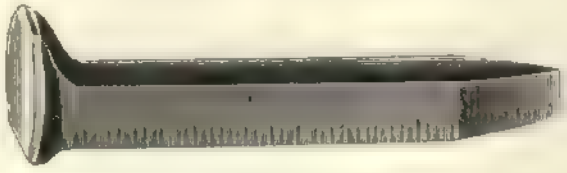


Per Pound
$

9/16 in. Square, Length 5½ in..
½ in. Square, Lengths 4, 4½ and 5 in.
7/16 in. Square, Length 3½ in.
3/8 in. Square, Length 3 in.,
5/8 in. Square, Length 2½ in.,

Two Hundred Pounds in a Keg

# Railroad Spikes, Reverse Point.

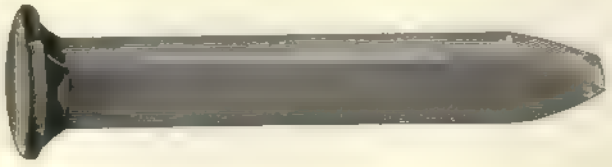


Per Pound
$

⅝ in., Square. Length 3 in..

Two Hundred Pounds in a Keg

# Street Railroad Spikes, Reverse Point.

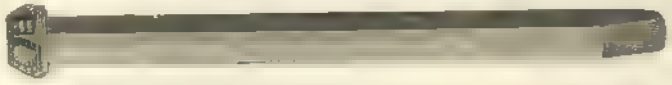


Per Pound
$

½ in., Square, Length 4½ in..

Two Hundred Pounds in a Keg.

# Boat Spikes.

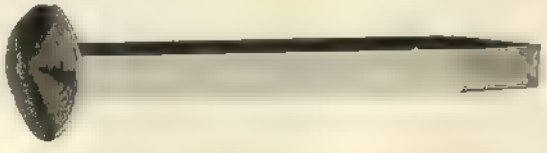


Per Pound
$

⅝ in., Square, Lengths 7, 8, 9, 10 and 12 in.,
7/16 in., Square, Lengths 8 and 9 in.,
⅜ in., Square, Lengths 5, 5½, 6, 7, 8, 9 and 10 in.,
5/16 in., Square, Lengths 4½, 5, 5½ and 6 in.,
¼ in., Square, Lengths 4, 4½, 5 and 6 in.,

Two Hundred Pounds in a Keg.

# Barge Spikes.

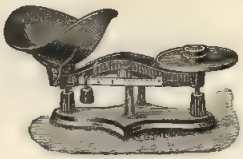


Per Pound
$

5/16 in., Square, Length 3½ in..

Two Hundred Pounds in a Keg.

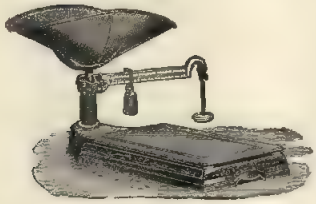
## "CHAMPION" SCALES.



"Even Balance," Scale.
With Side Beam.

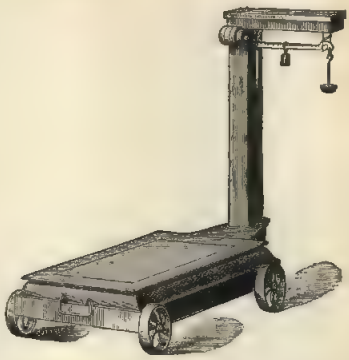
| Capacity | Scoop | Price | Inspection |
|---|---|---|---|
| ½ oz. to 4 lb. | Tin | 4.50 | .30 |
| ½ oz. to 10 lbs | " | 6 75 | .50 |

With Iron Weights Complete



"UNION" SCALES.

| Capacity | Scoop | Price | Inspection |
|---|---|---|---|
| ½ oz. to 240 lb. | Tin | 9.90 | .50 |

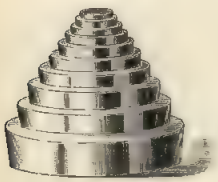


"Champion" Platform Scales.
With Wheels.

| Capacity | Price | Inspection |
|---|---|---|
| 600 lb. | 25.20 | 1.00 |
| 1200 lb. | 31 50 | 1.00 |

If desired without wheels deduct 2.50 from List Price

## WEIGHTS.



| Iron Weights, Flat Pattern. | Each |
|---|---|
| ½, 1, 2 and 4 oz. | .14 |
| ½ lb. | .27 |
| 1 lb | .27 |
| 2 lb | .38 |
| 3 lb | .50 |
| 4 lb | .60 |
| 5 lb. | .72 |

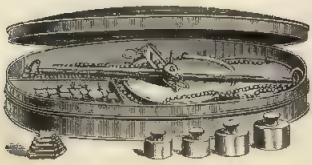
| In Nests | Per Nest. |
|---|---|
| Including all Weights from ½ oz. to ½ lb | .82 |
| " " ½ " 1 " | 1.10 |
| " " ½ " 2 " | 1.38 |
| " " ½ " 3 " | 1.65 |
| " " ½ " 4 " | 2.10 |
| " " ½ " 5 " | 2.55 |

| Brass Weights, Flat Pattern. | Each |
|---|---|
| ½, ¼ and 1 oz. | .22 |
| 2 oz. | .28 |
| 4 oz. | .37 |
| 8 oz. | .55 |
| 1 lb. | .88 |
| 2 lb. | 1 65 |
| 3 lb. | 2.20 |
| 5 lb. | 3 65 |

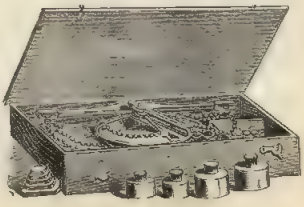
| In Nests. | Per nest |
|---|---|
| Including all Weights from ½ oz. to ½ lb | 1.76 |
| " " ½ " 1 " | 2.52 |
| " " ½ " 2 " | 4 12 |
| " " ½ " 3 " | 6.32 |
| " " ½ " 4 " | 9.35 |
| " " ½ " 5 " | 9.90 |

The Set from 5 lb. down does not include a 4 lb. weight.
Stamping extra, 5 cents net for each weight.
Government Inspection on Scales is not subject to any discount whatever.

## GOLD SCALES.



| | Per dozen |
|---|---|
| In Tin Boxes weighing up to 2 oz | 12.00 |
| " " " 4 oz. | 14.00 |
| " " " 6 oz | 18.50 |



In Wood Boxes, weighing up to 6 oz. — Per dozen 21.00

H. S. HOWLAND, SONS & CO., Wholesale Hardware, Toronto.

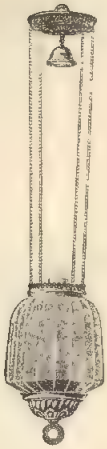
## HANGING LAMPS.

**No. 49,** Polished Bronze Metal with Ruby or Pink Globe.

Complete ..... ..... ... each 7 00

**No. 50,** Polished Bronzed Metal with Ruby or Pink Globe.

Complete ..... .... .....each 7.80



**No. 35.**

Complete, Ruby or Pink Globes . each 2.50
" Opalescent " .. " 2.20

**No. 2G,** Library Lamp with 14 in. Decorated Dome and Fount; B. Burner and Chimney.

Complete ..... each 6.50

**No. 01A,** Library Lamp with 14 in. Opal Dome, Crystal Fount, B. Burner and Chimney.

Complete, as above.....each 4.40
" with Decorated Dome " 4.80

**No. 1E,** Library Lamp with 14 in. Decorated Dome and Fount; B. Burner, Chimney and 30 Prisms.

Complete ..... .....each 8.50

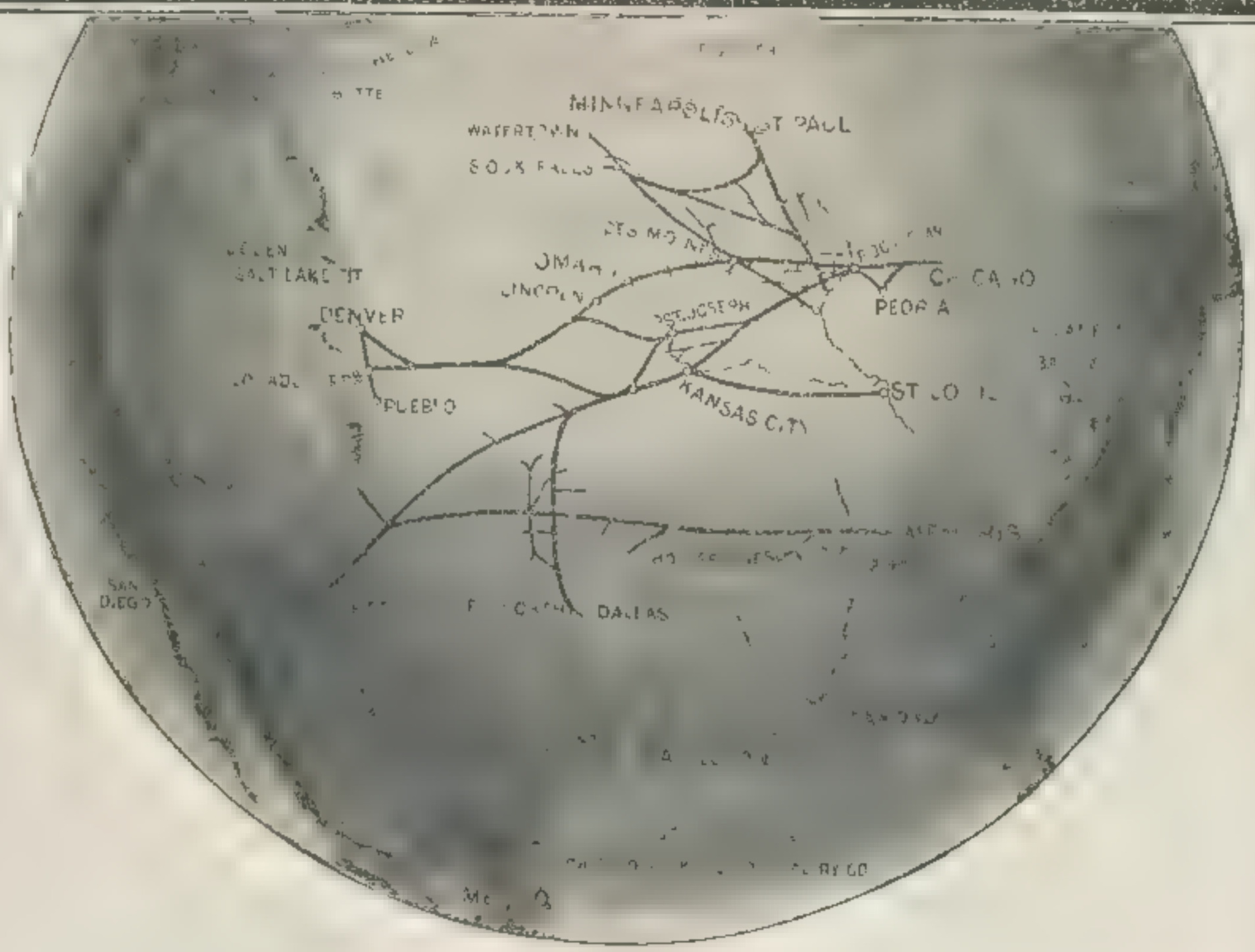
**"ELLIOT'S" hand-forged** Beef Slicers, Cooks' Knives are the very best made.

The very soul of the malt-delicious, healthful, invigorating, and *absolutely* pure—the perfection of brewing—is

# Pabst Blue Ribbon

The Beer of Quality

# The Rock Island States of America




Never has a better opportunity of visiting the West presented itself than will occur this summer. The occasions are:

**General Assembly Presbyterian Church, Los Angeles, May 21-June 2.**
**National Convention Society of Christian Endeavor, Denver, July 9-13.**
**National Encampment Grand Army of the Republic, San Francisco, August 17-22.**

Extraordinarily low rates will apply. Full information will be furnished on application to any of the representatives of the Rock Island whose addresses are given below:

New York City, 401 Broadway; 5th Ave. and 35th St. — Philadelphia, 111 South Ninth St. — Boston, 26 School St. — Buffalo, 120 Ellicott Square. Montreal, 178 St. James St. — Cincinnati, 38 East 4th St. - Cleveland, 216 Williamson Building. — Pittsburg, 415 Park Building. — Indianapolis, 9-10 Claypool Building. — Chicago, 91 Adams St. — Detroit, 11 Fort St. West. — Memphis, 347 Main St. — St. Louis, 901 Olive St.

Rock Island System

A glance at the map which appears above will show you how direct are the lines of the Rock Island System, not only to Colorado, but to Northern and Southern California as well.

JOHN SEBASTIAN, Passenger Traffic Manager,
Rock Island System, Chicago, Ill.

# More and More People are Demanding Pure Beer

During 1902 the sales of Schlitz Beer exceeded the year before by 132,916 barrels. That's the largest increase shown by any brewery in the world.

## This Year We Want You

We will give you a beer made from the best materials grown.

We will brew it in absolute cleanliness.

We will get our water from six wells, bored to rock.

We will filter all the air that touches it.

We will age it for months, so it cannot cause biliousness.

We will sterilize every bottle after it is sealed.

We will double, in these ways, the necessary cost of our brewing. Yet Schlitz Beer shall cost you just what the common beer costs. Will you try it?

*Ask for the Brewery Bottling*

# A Jamaica Outing

AS THE chilling, blustering Fall and Winter months approach, nature turns the cold shoulder to unhappy man, and every vista is bare, brown, leafless, unattractive. Let us in fancy picture another scene. A beautiful island in the tropics, bathed by a sea of crystal clearness and grateful warmth, clothed with a marvellous luxuriance of vegetation, beneath a sunlit sky of deepest blue, surrounded by an atmosphere famed for its salubrity, and having a temperature pleasantly mild and free from fluctuations,—such is Jamaica, the fairest island in the Caribbean Sea, the gem of the West Indies

This exquisite spot, the very antithesis of our "bleak December," has been brought within easy and convenient reach through the excellent service maintained by the steamers of the United Fruit Company. These new and handsome steel twin-screw United States mail steamships are swift, commodious and comfortable. Their fittings and appointments are of the most modern description and their officers are experienced, capable, and courteous. The steamers of the line, the "Admiral Farragut," "Admiral Dewey," "Admiral Sampson," and "Admiral Schley," have stateroom accommodations for fifty first class passengers on the main deck. They are of ample dimensions, excellently ventilated, and lighted by electricity. The ladies' saloon, the gentlemen's smoking-room, and the promenade are all on the bridge-deck. A very high standard is maintained in the cuisine. The first two of these steamers mentioned ply between Boston and Jamaica, one of them sailing from Boston at 10 a. m. every Wednesday, from Long Wharf. The latter two sail from Philadelphia at 10 a. m every Thursday, from Pier 5 North Wharves. The distance to Jamaica from Boston is one thousand six hundred miles, from Philadelphia a little less. The time of passage is about five days.

One of the greatest charms of the voyage is the almost magical transition from winter to summer. You embark upon an icy sea, swept by a frosty and biting wind. Within one day the chill has gone, within two summer has come again, and on the third there comes into view Watling's Island, better known as San Salvador, the first landing-place of Columbus. Very early on the fourth day the steamer rounds Cape Maysi, the eastern extremity of Cuba. A few hours further sailing brings Jamaica into sight, at first a minute and disappointing speck upon the horizon, later a picture of tropical beauty that seems more like a dream than a reality. In entering Port Antonio harbor the passenger is carried away by the grandeur of the scene, and, as has been expressed by one of our patrons, "if he saw nothing else, this sight alone would well repay him for taking the trip." The outward journey ends at Port Antonio, where passengers disembark.

Port Antonio, the Jamaican port of the United Fruit Company's steamers, is the second city in importance on the island, and is connected with the capital, Kingston (sixty miles away) by railroad. It is the principal shipping point for the tropical fruits for which Jamaica is famous

Its magnificent harbor has been called by many tourists "the loveliest spot on earth." The elegant Hotel Titchfield stands on an eminence overlooking the harbor and is well-kept, being considered generally the best hotel on the island

The country in the vicinity of Port Antonio is one of the richest agricultural districts on the island, and some of the largest fruit plantations are within the compass of short drives from the town. The government gardens at Castleton are a great attraction to visitors, and the Jamaica Hot Sulphur Spring, at Bath, near Bowden Peak Views, is a spot of much popularity. The entire trip to Jamaica and return, if one has not the time for a longer stay, including visits to the principal points of interest, can easily be compassed within three weeks at a most moderate cost.

There are over 4 000 miles of clean, hard, macadamized roadways built and admirably sustained by the government, with such easy grades that a bicycle, automobile or road carriage may be driven anywhere, even to the highest mountain ridges, from which you may enjoy views unsurpassed for loveliness. From sea beach to mountain top is a luxurious growth of brilliant tropical vegetation—flowers, fruits, orchards, ferns and palms, while the roadways through the bamboo groves resemble the aisles of a splendid gothic cathedral.

The chief sport is sea bathing, which is here an unqualified luxury, the beautiful, hard, white coral sand beaches, the clear, pellucid water of most agreeable temperature, and the entire absence of any chill in the air, forming a trio of attractive elements not to be found elsewhere in the western hemisphere.

**Round Trip Tickets from either Boston or Philadelphia, $75.00. Good from Oct. 1st to May 1st, 1904, including State Room Berths and Meals.**

**For complete details in regard to these splendid sea voyages, also all about Jamaica and the West Indies, send for sample copy of "THE GOLDEN CARIBBEAN," a handsome magazine issued monthly by the Passenger Department. Or by sending 25 cents, copies of this interesting publication will be mailed to any address every month for one year.**

Address

UNITED FRUIT COMPANY
Long Wharf, Boston

# THE ANGELUS

IF YOU have a sensitive ear and are distressed by incorrect or expressionless piano playing, we wish you would do us a favor. Ask our nearest agent to let you play a piano with our New ANGELUS, which has the New Phrasing Lever. You will be more than repaid. Even though you never played a note of music, you will be enabled to reproduce perfectly the delicate shading and expression—the last touches of musical grace of the greatest pianists.

The ANGELUS ORCHESTRAL has still another feature that will please you. Inside this instrument (Model No. 66) is a complete set of very sweet flute-toned Pipe Reeds (fully patented) This instrument is *orchestral*, because you can have any of the following effects:

First—The ANGELUS playing the piano *alone*.

Second—The ANGELUS playing the *Pipe Reeds alone*.

Third—The ANGELUS playing *both* the *Piano* and *Pipe Reeds* in combination, producing indescribable beauties of melody and harmonies that will cause you to marvel. Very easy of operation.

The ANGELUS is the pioneer of all PIANO PLAYERS. Purchased by Royalty and the world's greatest musicians

Handsome booklet free upon request.

Agents everywhere. May be heard at any of the following places:

[illegible] Juelg & Co.
[illegible] Harvey & Co.
[illegible]
[illegible] W. G. Woodmansee
[illegible]
Cleveland: J. T. Wamelink & Son's Piano Co.
Denver: Knight-Locke Piano Co.
Galveston: Thos. Goggan & Bro.
Kansas City: Carl Hofman Music Co.
Los Angeles: The Bartlett Music Co.
Minneapolis: Dyer & Waldo.
New Haven, Conn.: The Treat & [illegible]rd Co., 837 Chapel St.
New Orleans: Junius Hart Piano Hse.
New York: John Wanamaker.
Omaha: A. Hospe & Co.
Philadelphia: John Wanamaker.
Pittsburg: S. Hamilton
San Francisco: Sherman Clay & Co.
Springfield, Mass.: M. P. Conway, 354 Main St
Syracuse: S. Rosenbloom & Sons.
Washington: Juelg & Co.

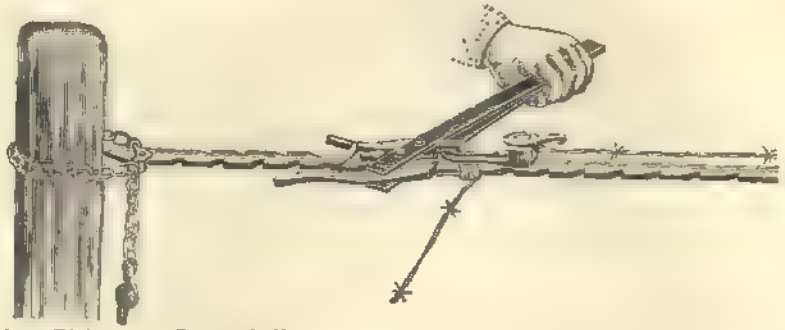
And other local agencies throughout the country

J. Herbert Marshall, Regent House, Regent St., London

The Wilcox & White Co., *Sole Makers*, Meriden, Conn., U. S. A.

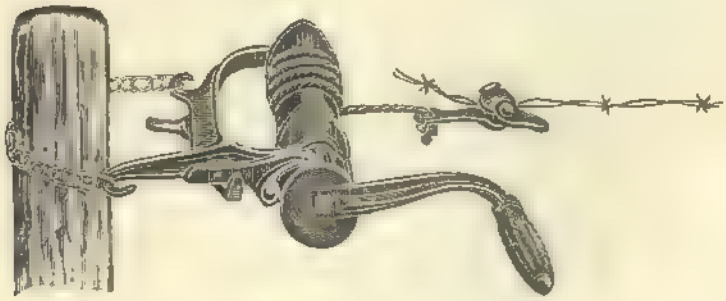
ESTABLISHED 1876

# Ellwood Pattern Wire Stretcher.



**Ellwood Lever**—Double Ratchet, Weight per Dozen, 68 lbs..... .....Per Dozen, $10 00

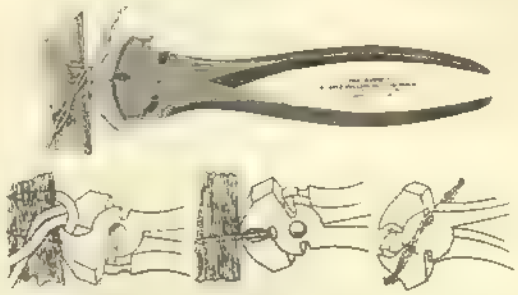
# Little Giant Wire Stretcher.



**Little Giant**—Crank, Weight per Dozen, 60 lbs..... .....Per Dozen, $10 00

Packed as Ordered.

# Russell Staple Puller.



**Russell Combination Tool**—Extra Quality, Combines a Staple Puller, Wire Splicer, Tightener, Plier, Pincer, Hammer and Wrench .....Per Dozen, $18 00

Half Dozen in a Box; Weight per Dozen, 21 lbs.

# Fence Staples.

Bright.

| Size, inch. | 1¼ | 1½ | 1¾ | 2 |
|---|---|---|---|---|
| Number to the Pound | 87 | 72 | 65 | 58 |
| Per Hundred Pounds | $ | | | |

Galvanized.

| Size, inch. | 1¼ | 1½ | 1¾ | 2 |
|---|---|---|---|---|
| Number to the Pound | 87 | 72 | 65 | 58 |
| Per Hundred Pounds | $ | | | |

One Hundred Pounds in a Keg

About five pounds of Staples are required for one mile of fence, one strand, posts one rod apart

## Estimate Table of Weights and Measures for Barbed Wire Fencing.

| Number of Acres. | Size of Enclosure. | Miles of Fence. | Rods of Fence | Posts Required. ½ Rod Apart. | Posts Required. 1 Rod Apart. | Pounds of One Strand. 2 Point. | Pounds of One Strand. 4 Point. |
|---|---|---|---|---|---|---|---|
| 640 or 1 Section | 1×1 mile | 4 | 1,280 | 2,560 | 1,280 | 1,408 | 1,488 |
| 320 " ½ " | ½×1 " | 3 | 960 | 1,920 | 960 | 1,056 | 1 116 |
| 160 " ¼ " | ½×½ " | 2 | 640 | 1,280 | 640 | 704 | 744 |
| 80 | ¼×½ " | 1½ | 480 | 960 | 480 | 528 | 558 |
| 40 | ¼×¼ " | 1 | 320 | 640 | 320 | 352 | 372 |
| 20 | ⅛×¼ " | ¾ | 240 | 480 | 240 | 264 | 279 |
| 10 | 40×40 rods | ½ | 160 | 320 | 160 | 176 | 186 |
| 5 | 20×40 " | ⅜ | 120 | 240 | 120 | 132 | 140 |
| 1 | 12¾×12¾ " | | 50¾ | 104 | 42 | 55⅓ | 61 |

## Posts to a Mile.

| Feet, Apart | 8 | 10 | 12 | 16½ | 20 | 25 | 30 | 33 |
|---|---|---|---|---|---|---|---|---|
| Number Required | 660 | 528 | 440 | 3 20 | 2 64 | 212 | 176 | 160 |

# Barbed Fence Wire.

## Glidden, Two Point.

**Round Wire Barbs, Short, Sharp and Perfect.**

| Hog, Thick Set, Barbs 3 inches apart. | | Cattle, Barbs 5 inches apart. | |
|---|---|---|---|
| **2 Point**—Galvanized | Per 100 lbs. $ | **2 Point**—Galvanized | Per 100 lbs. $ |
| **2 Point**—Painted | " " | **2 Point**—Painted | " " |

## Glidden, Four Point.

**Round Wire Barbs, Short, Sharp and Perfect.**

| Hog, Thick Set, Barbs 3 inches apart. | | Cattle, Barbs 5 inches apart. | |
|---|---|---|---|
| **4 Point**—Galvanized | Per 100 lbs. $ | **4 Point**—Galvanized | Per 100 lbs. $ |
| **4 Point**—Painted | " " | **4 Point**—Painted | " " |

## Baker Perfect, Two Point.

**Flat Barbs, Short and Sharp.**

| Hog, Thick Set, Barbs 3 inches apart. | | Cattle, Barbs 5 inches apart. | |
|---|---|---|---|
| **2 Point**—Galvanized | Per 100 lbs. $ | **2 Point**—Galvanized | Per 100 lbs. $ |
| **2 Point**—Painted | " " | **2 Point**—Painted | " " |

## Waukegan, Two Point.

**Half Round Barbs, Short and Sharp.**

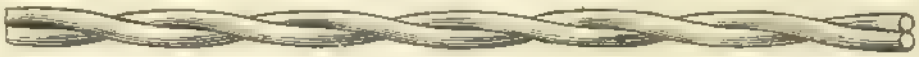
| Hog, Thick Set, Barbs 3 inches apart. | | Cattle, Barbs 5 inches apart. | |
|---|---|---|---|
| **2 Point**—Galvanized | Per 100 lbs. $ | **2 Point**—Galvanized | Per 100 lbs. $ |
| **2 Point**—Painted | " " | **2 Point** Painted | " " |

## Waukegan, Four Point.

**Half Round Barbs, Short and Sharp.**

| Hog, Thick Set, Barbs 3 inches apart. | | Cattle, Barbs 5 inches apart. | |
|---|---|---|---|
| **4 Point**—Galvanized | Per 100 lbs. $ | **4 Point**—Galvanized | Per 100 lbs. $ |
| **4 Point**—Painted | " " | **4 Point**—Painted | " " |

## Two Strand, Twisted.



**2 Strand**—Galvanized, No. 12½ Steel Wire, Weight, 14 oz. Per Rod . . . Per 100 lbs. $.
**2 Strand**—Painted, " 12½ " " " 14 " " " " " "

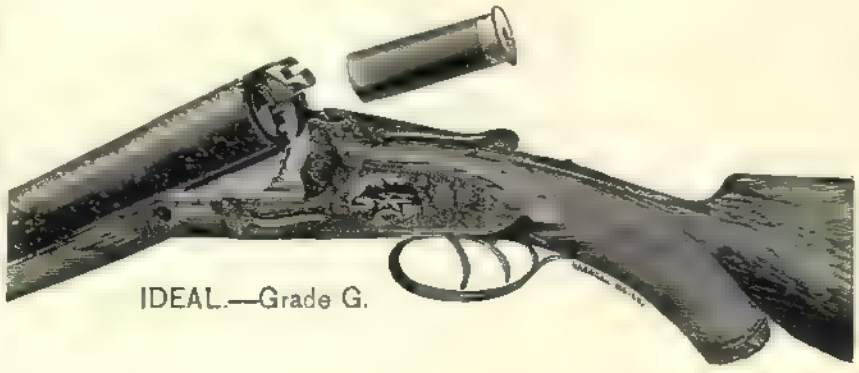
All Above, About 100 lbs on a Reel. Average Weight, 1 lb to the Rod.

# DOUBLE BARREL HAMMERLESS SHOTGUNS.

## LEFEVER ARMS CO.

We are Pacific Coast Agents for the Lefever Arms Co., of Syracuse, N. Y., and carry a full stock of guns of their manufacture, also a complete line of parts that go to make up these guns. We absolutely guarantee all Lefever guns.

**LEFEVER Guns of all grades are built for Black and Nitro Powder, true to gauge to use wads same size as gauge of gun.**



IDEAL.—Grade G.

With and Without Shell Ejector. Simple, Durable, Effective.

Advantages of the Lefever Improved Hammerless Gun

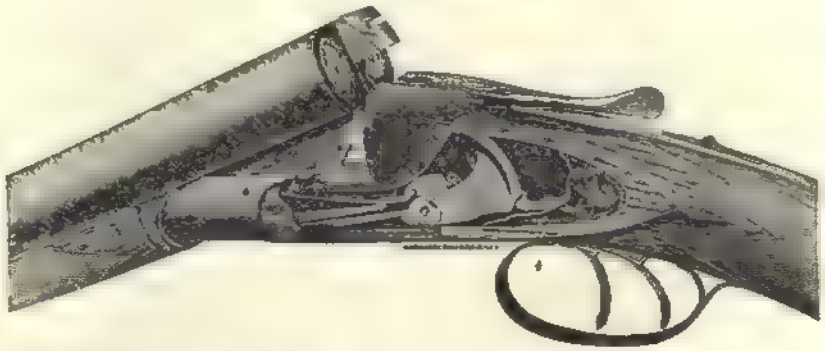
**Advantages and improvements unknown to other guns.**

1. The strongest and simplest in the world.
2. Compensated action to take up wear in every direction.
3. Long frame, increasing strength of action.
4. No thicker frame than an ordinary hammer gun, avoiding the clumsy and out of proportion appearance of the majority of hammerless guns.
5. The locks and action can be taken apart and cleaned as easily as a hammer gun. The gun can be taken apart and put together with the hammers up or down
6. The position of the hammers can be ascertained by the indicators as readily as with a hammer gun.
7. Hammers cannot be jarred off, even with a trigger pull as light as two pounds.
8. The only action with one piece to raise hammers, extract shells and form a check to take the strain off hinge joint.
9. The action of the locks is twice as quick as a hammer gun, thus increasing the chances of the sportsman when firing at quick-moving objects.
10. No hammers to obstruct the sight or catch on twigs or bushes.
11. The safety can be made either automatic or non-automatic.
12. The use of gas-tight, independent plungers prevents any chance for escape of gas into the locks.
13. The locks are rebounding.
14. Both hammers being raised by a single lever, need no adjustment screws or pins to make them cock together.
15. The ease with which the gun is opened, there being but little friction to overcome, as only one piece is employed to raise the hammers.
16. Less liability to misfire than any other hammerless action, because no levers or cocking rods to obstruct the fall of the hammers
17. Interchangeable main spring.
18. Self-compensating bolt.
19. Cocking device has only one lever to raise both hammers.
20. Can be taken apart or put together with hammers in any position.
21. Has a powerful check hook which takes all strain off of hinge joint.

**The only gun in the world with Compensated Action to take up wear in every direction. The best balanced and most symmetrical gun made. Has an unexcelled record.**

# DOUBLE BARREL HAMMERLESS SHOTGUNS.

## LEFEVER ARMS CO.



Sectional View of Remodeled Lefever Hammerless Gun.

Cocking Hook.

The cocking action of the Lefever Gun has been reduced to **One Piece**, thus giving the gun advantages over all others, and producing a gun that a sportsman can select for use on an extended trip in perfect confidence that there is no chance of the mechanism getting out of order. Weight, 7 to 8½ lbs.

**All grades built with and without Automatic Shell Ejector.**

**I Grade**—A new low priced gun, black steel barrels, English walnut stock, rubber butt-plate, full pistol grip, checkered, full compensated action, 12 gauge only ..... $ 39 00

**H Grade**—New medium priced gun, best grade London twist barrels, English walnut stock, rubber butt-plate, full pistol grip with rubber cap, checkered, full compensated action, 12 gauge only... 44 00

**HE**—Same as H with automatic shell ejector..... 59 00

**Ideal G Grade**—Damascus steel barrels, English walnut stock, rubber butt-plate, full pistol grip with rubber cap, checkered, line engraving, full compensated action, 10, 12 and 16 gauge..... 57 00

**GE**—Same as G, with automatic shell ejector..... 72 00

**F Grade**—Damascus steel barrels, English walnut stock, checkered and well engraved, rubber butt-plate, full pistol grip, full compensated action, 10, 12, 16 and 20 gauge..... 80 00

**FE**—Same as F with automatic shell ejector..... 95.00

**E Grade**—Damascus steel barrels, English walnut stock, rubber butt-plate, full pistol grip with rubber cap, finely engraved and checkered, full compensated action, 10, 12, 16 and 20 gauge..... 100 00

**EE**—Same as E with automatic shell ejector..... 115 00

**D Grade**—Damascus steel barrels, fine English walnut stock, full pistol grip with rubber cap, rubber butt-plate, finely engraved and checkered, full compensated action, 10, 12, 16 and 20 gauge ..... 125 00

**DE**—Same as D with automatic shell ejector..... 140.00

**C Grade**—Fine Damascus steel barrels, choice English walnut stock full pistol grip with horn or steel cap, rubber butt-plate, richly engraved and checkered, full compensated action, 10, 12, 16 and 20 gauge ..... 150 00

**CE**—Same as C with automatic shell ejector..... 165.00

**B Grade**—Fine Damascus steel barrels, fine English walnut stock, full pistol grip with horn cap, horn butt-plate, handsomely engraved and checkered, full compensated action, 10, 12, 16 and 20 gauge..... 200.00

**BE**—Same as B with automatic shell ejector..... 215 00

**AA Grade**—Finest Damascus steel barrels, finest French walnut stock, full pistol grip with horn cap, horn or skeleton butt-plate, full compensated action, elegantly engraved, checkered and finished. Fitted with automatic shell ejector..... 300 00

**A Grade**—Same as AA, except not so well finished and engraved. Fitted with automatic shell ejector, 10, 12, 16 and 20 gauge. 250.00

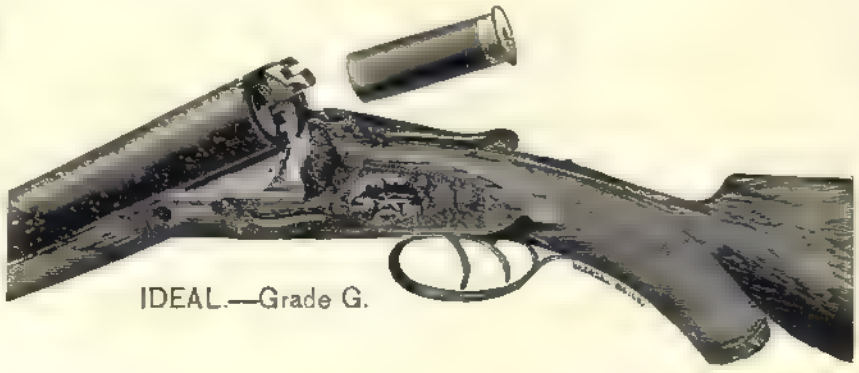
**Optimus**—Whitworth Fluid Steel, or highest grade hard English Damascus barrels, finest French walnut stock, full pistol grip with horn cap, horn or skeleton butt-plate, full compensated action, special designs in gold, highest class of engraving, checkering and finish. Fitted with automatic shell ejector, 10, 12, 16 and 20 gauge. ..... 400 00

# DOUBLE BARREL HAMMERLESS SHOTGUNS.

## LEFEVER ARMS CO.

We are Pacific Coast Agents for the Lefever Arms Co., of Syracuse, N. Y., and carry a full stock of guns of their manufacture, also a complete line of parts that go to make up these guns. We absolutely guarantee all Lefever guns.

**LEFEVER Guns of all grades are built for Black and Nitro Powder, true to gauge to use wads same size as gauge of gun.**



IDEAL.—Grade G.

With and Without Shell Ejector. Simple, Durable, Effective.

Advantages of the Lefever Improved Hammerless Gun

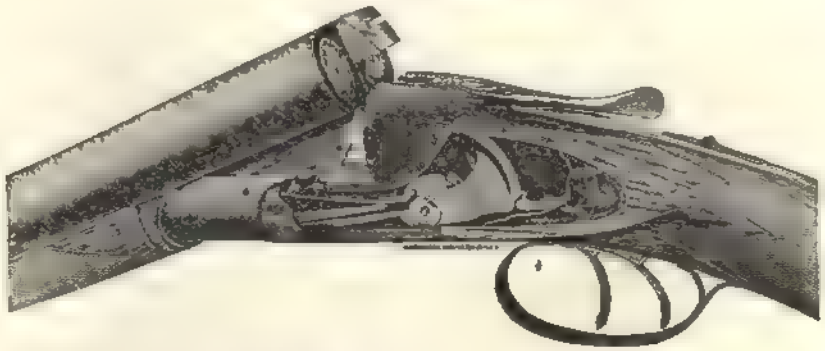
**Advantages and improvements unknown to other guns.**

1. The strongest and simplest in the world.
2. Compensated action to take up wear in every direction.
3. Long frame, increasing strength of action.
4. No thicker frame than an ordinary hammer gun, avoiding the clumsy and out of proportion appearance of the majority of hammerless guns.
5. The locks and action can be taken apart and cleaned as easily as a hammer gun. The gun can be taken apart and put together with the hammers up or down.
6. The position of the hammers can be ascertained by the indicators as readily as with a hammer gun.
7. Hammers cannot be jarred off, even with a trigger pull as light as two pounds.
8. The only action with one piece to raise hammers, extract shells and form a check to take the strain off hinge joint.
9. The action of the locks is twice as quick as a hammer gun, thus increasing the chances of the sportsman when firing at quick-moving objects.
10. No hammers to obstruct the sight or catch on twigs or bushes.
11. The safety can be made either automatic or non-automatic.
12. The use of gas-tight, independent plungers prevents any chance for escape of gas into the locks.
13. The locks are rebounding.
14. Both hammers being raised by a single lever, need no adjustment screws or pins to make them cock together.
15. The ease with which the gun is opened, there being but little friction to overcome, as only one piece is employed to raise the hammers.
16. Less liability to misfire than any other hammerless action, because no levers or cocking rods to obstruct the fall of the hammers.
17. Interchangeable main spring.
18. Self-compensating bolt.
19. Cocking device has only one lever to raise both hammers.
20. Can be taken apart or put together with hammers in any position.
21. Has a powerful check hook which takes all strain off of hinge joint.

**The only gun in the world with Compensated Action to take up wear in every direction. The best balanced and most symmetrical gun made. Has an unexcelled record.**

# DOUBLE BARREL HAMMERLESS SHOTGUNS.

## LEFEVER ARMS CO.



Sectional View of Remodeled Lefever Hammerless Gun.

Cocking Hook.

The cocking action of the Lefever Gun has been reduced to **One Piece**, thus giving the gun advantages over all others, and producing a gun that a sportsman can select for use on an extended trip in perfect confidence that there is no chance of the mechanism getting out of order. Weight, 7 to 8½ lbs.

**All grades built with and without Automatic Shell Ejector.**

**I Grade**—A new low priced gun, black steel barrels, English walnut stock, ruboer butt-plate, full pistol grip, checkered, full compensated action, 12 gauge only ... $ 39 00

**H Grade**—New medium priced gun, best grade London twist barrels, English walnut stock, rubber butt-plate, full pistol grip with rubber cap, checkered, full compensated action, 12 gauge only... 44.00

**HE**—Same as H with automatic shell ejector..... 50 00

**Ideal G Grade**—Damascus steel barrels, English walnut stock, rubber butt-plate, full pistol grip with rubber cap, checkered, line engraving, full compensated action, 10, 12 and 16 gauge..... 57 00

**GE**—Same as G, with automatic shell ejector.... 72 00

**F Grade**—Damascus steel barrels, English walnut stock, checkered and well engraved, rubber butt-plate, full pistol grip, full compensated action, 10, 12, 16 and 20 gauge..... 80.00

**FE**—Same as F with automatic shell ejector..... 95.00

**E Grade**—Damascus steel barrels, English walnut stock, rubber butt plate, full pistol grip with rubber cap, finely engraved and checkered, full compensated action, 10, 12, 16 and 20 gauge..... 100.00

**EE**—Same as E with automatic shell ejector ..... 115.00

**D Grade**—Damascus steel barrels, fine English walnut stock, full pistol grip with rubber cap, rubber butt-plate, finely engraved and checkered, full compensated action, 10, 12, 16 and 20 gauge..... 125.00

**DE**—Same as D with automatic shell ejector..... 140.00

**C Grade**—Fine Damascus steel barrels, choice English walnut stock full pistol grip with horn or steel cap, rubber butt-plate, richly engraved and checkered, full compensated action, 10, 12, 16 and 20 gauge..... 150.00

**CE**—Same as C with automatic shell ejector..... 165.00

**B Grade**—Fine Damascus steel barrels, fine English walnut stock, full pistol grip with horn cap, horn butt plate, handsomely engraved and checkered, full compensated action, 10, 12, 16 and 20 gauge. ..... 200 00

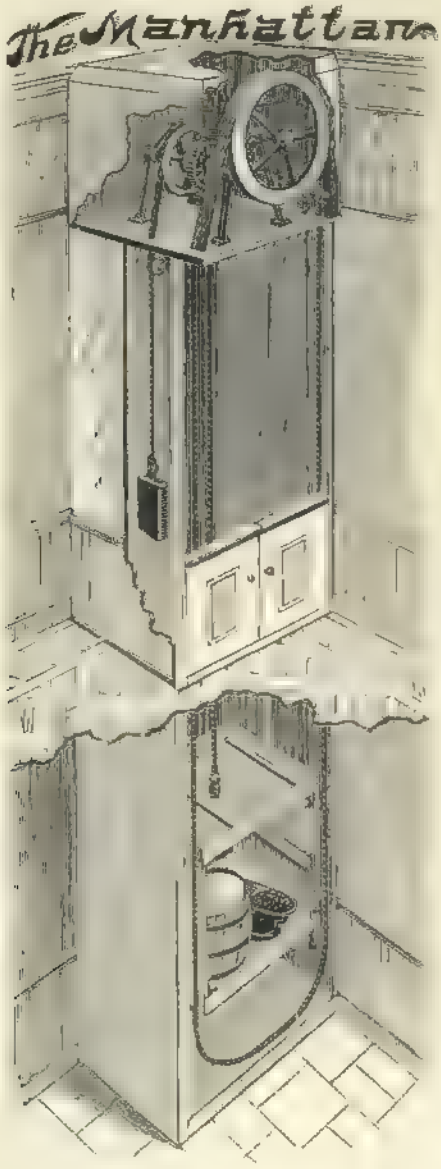
**BE**—Same as B with automatic shell ejector..... 215.00

**AA Grade**—Finest Damascus steel barrels, finest French walnut stock, full pistol grip with horn cap, horn or skeleton butt-plate, full compensated action, elegantly engraved, checkered and finished. Fitted with automatic shell ejector..... 300 00

**A Grade**—Same as AA, except not so well finished and engraved. Fitted with automatic shell ejector, 10, 12, 16 and 20 gauge. 250.00

**Optimus**—Whitworth Fluid Steel, or highest grade hard English Damascus barrels, finest French walnut stock, full pistol grip with horn cap, horn or skeleton butt-plate, full compensated action, special designs in gold, highest class of engraving, checkering and finish. Fitted with automatic shell ejector, 10, 12, 16 and 20 gauge ..... 400 00

# Manhattan Dumb Waiter Fixtures.




This fixture has a capacity of 200 pounds and is especially intended for use in places where the New York Safety is not heavy enough, such as in Tenement and Apartment Houses where heavy substances are to be lifted, and where the buildings are many stories high

The shafts of these fixtures run on Babbitt Metal bearings; they are frictionless and noiseless, are handsomely bronzed, are perfectly made and warranted in all particulars The counterpoise weight can run on either side or at back Use ⅜-inch cable for lifting and ⅝ manila rope for hand rope. These fixtures should not be used in well holes or openings larger than 36 inches square

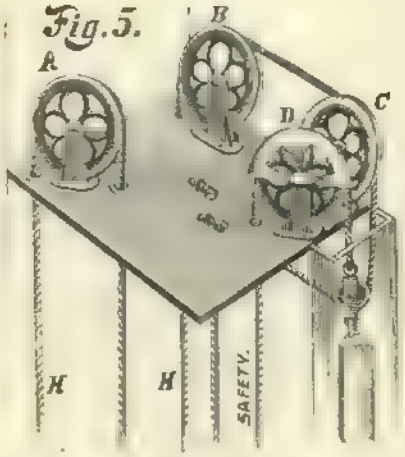
This Machine is equipped with a BAND BRAKE which operates on the main HOIST WHEEL and which positively controls the load at any point, either in hoisting or lowering.

**Manhattan,** Fixtures Only, Without Rope or Cable, Weight per Set, 210 lbs ..... Per Set, $40 00

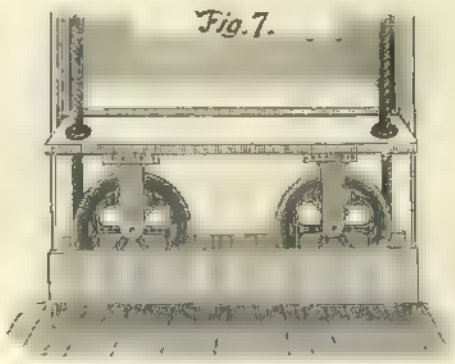
In ordering, please state whether the counterweight is to run at right or left hand side or BACK Also state size of well hole, inside measurement.

# Dumb Waiter Fixtures.

## New York Safety.



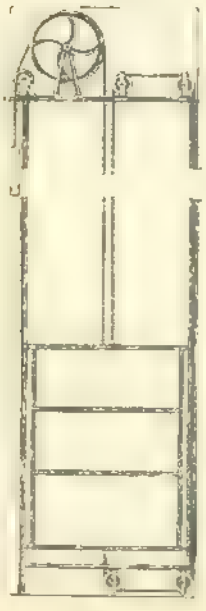

Cut showing perspective view of Wheels at the top.




Cut showing Guide Wheel used at bottom, boxed in, to prevent the rope from running off

**New York Safety** Copper Bronzed Castings, Comprising Six 8 in. Wheels, Two 4 in Wheels, One Pulley for Weight and Safety Rope Five 1¼ in. Thimbles, One ¾ in Thimble, One Ring for Safety Rope, One Brake Grip and Ring for Cord, One Hooded Pulley for Grip and One Patent Plate, Capacity 50 to 75 lbs., Weight, without Ropes and Weights, 68 lbs. . . . . Per Set, $20 00

Packed One Set in a Box



# National Dumb Waiter Fixtures.

This Dumb Waiter Is Adapted to All Places Where 50 Pounds or Less Are to Be Carried.

Each Machine Is Packed in a Box Containing All the Pulleys and Standards Necessary to Complete the Outfit. Dealers Can Handle These Goods Without Repacking. Any Ordinary Weight Will Answer to Counterbalance the Waiter Box

**National Dumb Waiter Fixtures**—Large Wheel 12 in., Small Wheels, 3 in., Rope, Weights, or Car not Included..... .....Per Set $10 00

Weight Per Set, 35 lbs.

# POCKET COMPASSES.

No. 1708.

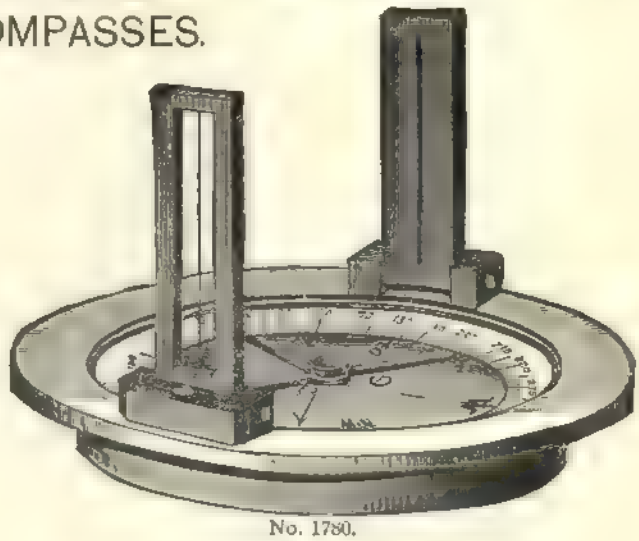
No. 1753

No. 1721.

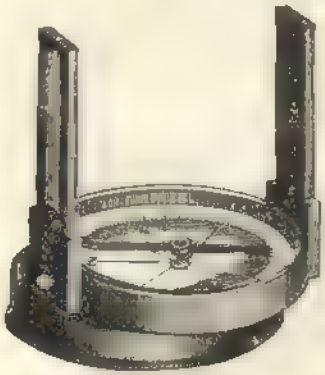
**No. 1708**—Brass case, hinge cover, metal dial, fine divisions, needle with jeweled center and stop, 2-inch diameter.. . . .Per dozen, $36 00
**No. 1718**—Similar to No. 1708, nickel-plated case, 1¼-inch diameter.. ..... " 48 00
**No. 1721**—Brass case with slip cover, stop to needle, metal dial, raised circle with fine divisions bar needle with jeweled center, 2-inch diameter. ..... " 45 00
**No. 1728**—Brass case with slip cover to fit on back of compass, stop to needle, black dial, bar needle with jeweled center 2½-inch diameter. ..... " 54 00
**No. 1753**—Wood box compass with stop, metal dial, raised circle, fine divisions, bar needle with jeweled center, 2¼-inch diameter. ..... " 54 00
**No. 1754**—Wood box compass with stop, metal dial fine divisions, needle with agate center, 2¼-inch diameter... .. " 36 00

# SURVEYORS' COMPASSES.

No. 1780.



No. 1780.

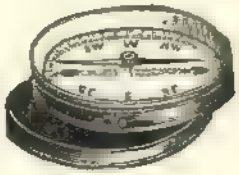


No. 1789

**No. 1790**—Brass in nickel case, metal raised dial with fine divisions, bar needle with jeweled center and stop, folding sights, 3 inches..... .....Each, $15.00
**No. 1789**—Brass case with ring and slip cover, metal dial, bar needle with jeweled center and stop, folding sights, 2 inches..... " 10 00
**No. 1790**—Nickel-plated case with hinge cover, metal raised dial with fine divisions, bar needle with jeweled center and stop, folding sights, 2½-inch diameter .. . 13 00
**No. 1783**—Brass in leather case, metal lined, raised dial with fine divisions, bar needle with jeweled center and stop, folding sights, 3½ inches..... " 12 00

# POCKET COMPASSES.

No. 1770.



No. 1771.

No. 1700.

No. 1702.

**No. 1770**—Brass Case, with ring, open face, card dial.

| Diameter, inch | 1¼ | 1½ | 2 |
|---|---|---|---|
| Per dozen | $4.00 | 5.00 | 8.00 |

**No. 1771**—Brass Case, with removable cover, card dial.

| Diameter, inch | 1¼ | 1½ | 2 |
|---|---|---|---|
| Per dozen | $5.00 | 7.00 | 8.00 |

**No. 1700**—Brass Case, with ring, open face, metal dial, with stop.

| Diameter, inch | 1¾ |
|---|---|
| Per dozen | $18.00 |

No. 1703.

**No. 1702**—Similar to No. 1700, but with fine division and needle, with jeweled center.

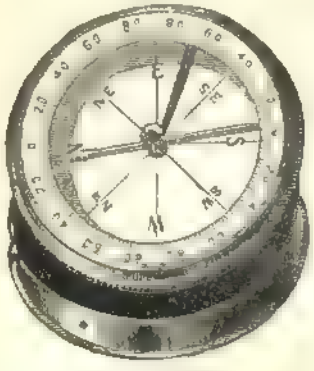
| Diameter, inch | 1¾ |
|---|---|
| Per dozen | $21.00 |

**No. 1703**—Brass Case, with removable cover, metal dial, stop to needle.

| Diameter, inch | 1¾ |
|---|---|
| Per dozen | $18.00 |

**No. 1704**—Similar to No. 1703, but needle with jeweled center.

| Diameter, inch | 1¾ |
|---|---|
| Per dozen | $21.00 |



No. 1705.

**No. 1776**—Nickel-plated hunting watch case pattern, spring hinge cover, metal dial

| Diameter, inch | 1¼ |
|---|---|
| Per dozen | $21.00 |

**No. 159**—Nickel-plated hunting watch case pattern, spring cover, metal dial, needle with jeweled center

| Diameter, inch | 1¾ |
|---|---|
| Per dozen | $30.00 |

**No. 1705**—Brass Case, slide cover, metal dial, with fine division, needle with jeweled center and stop.

| Diameter, inch | 2 |
|---|---|
| Per dozen | $30.00 |

No. 1776

PACIFIC HARDWARE & STEEL COMPANY

# Ashcroft's Steam or Pressure Gauges.

## With Single Bourdon Springs.

These Gauges are adapted for Steam, Air, Gas, Water, and any fluid pressure that will not affect brass

They can be graduated to any pressure not above 500 pounds per square inch.

These Gauges Have Non-corrosive Movements. Springs are made from carefully selected, Seamless Drawn Tubing. Dials are made of Brass and Silvered with the Figures and Letters cut deep and filled with Black Enamel. Connections on sizes 3 inches and over are ½ inch male pipe thread at bottom of Gauge, as shown in cut. They are all accurately and correctly graduated by open mercury column, are stamped with trademark and warranted correct.

### Iron Case, Japanned, Brass Ring.

| | | | |
|---|---|---|---|
| 2½ inch Dial | Each. | $6 00 |
| 3½ " " | " | 7 00 |
| 4½ " " | " | 8 00 |
| 5 " " | " | 8 00 |
| 5½ " " | " | 10 00 |
| 6 " " | " | 13 00 |
| 6¾ " " | " | 16 00 |
| 8½ " " | " | 22 00 |

### Brass Case.

| | | | |
|---|---|---|---|
| 2½ inch Dial | Each. | $8 00 |
| 3½ " " | " | 9 00 |
| 4½ " " | " | 10 00 |
| 5 " " | " | 11 00 |
| 5½ " " | " | 12 00 |
| 6 " " | " | 16 00 |
| 6¾ " " | " | 20 00 |
| 8½ " " | " | 30 00 |

Price includes Cock with Each Gauge.

Siphons must be attached to these Gauges when they are used for Steam pressures to prevent anything but water entering the spring of the Gauge.

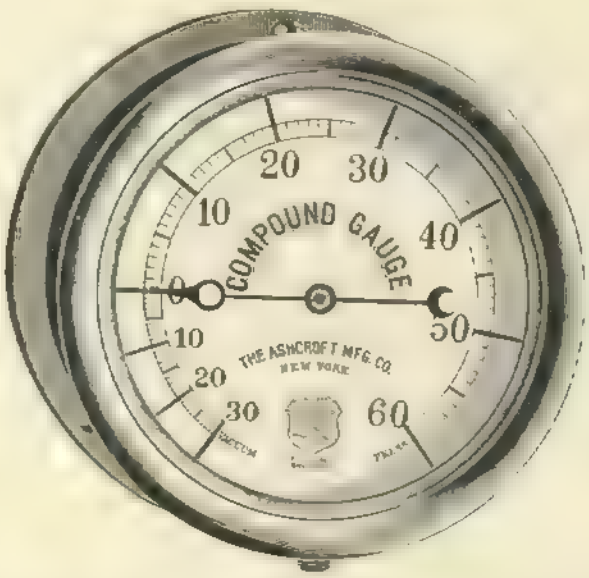
When ordering, do not fail to state the pressure per square inch to which you wish the Gauges graduated. All Pressure Gauges, particularly when used under Steam pressure should be graduated to double their working pressure to ensure the greatest durability.

# Ashcroft's Gauges.

## Vacuum.

## Compound Pressure and Vacuum.

With Single Bourdon Springs.




These Gauges have Non-corrosive Movements. Springs are made from Carefully Selected, Seamless Drawn Tubing. Dials are made of Brass and Silvered, with the Figures and Letters cut deep and filled with Black Enamel. Connections on sizes 3 inches and over are ¼ inch male pipe thread at bottom of Gauge, as shown in cut. They are all accurately and correctly graduated by open mercury column, are stamped with trademark and warranted correct.

Syphons must be attached to these Gauges when used for Steam pressure to prevent anything but Water entering the Spring of the Gauge.

Price Includes Cock With Each Guage.

### Vacuum.

| Dial, inch | Iron Case, Brass Ring, Each | Brass Case, Each |
|---|---|---|
| 2½ | $ 6 00 | $ 8 00 |
| 3½ | 7 00 | 9 00 |
| 4½ | 8 00 | 10 00 |
| 5 | 8 00 | 11 00 |
| 5½ | 10 00 | 12 00 |
| 6 | 10 00 | 16 00 |
| 6¾ | 16 00 | 20 00 |
| 8½ | 22 00 | 30 00 |

When ordering, note that the dials of these Gauges are graduated to 30 inches. They can be graduated in equivalent pounds, if so stated when ordering.

### Compound Pressure and Vacuum.

| Dial, inch. | Iron Case, Brass Ring, Each. | Brass Case, Each. |
|---|---|---|
| 3½ | $10 00 | $12 00 |
| 4½ | 12 00 | 14 00 |
| 5 | 14 00 | 16 00 |
| 5½ | 14 00 | 16 00 |
| 6 | 16 00 | 20 00 |
| 6¾ | 20 00 | 25 00 |
| 8½ | 30 00 | 40 00 |

When ordering, do not fail to state the pressure per square inch to which you wish the pressure side of the Guage graduated. All Pressure Gauges, particularly when used under steam pressure, should be graduated to double their highest working pressure to ensure the greatest durability. The vacuum side of the Gauge can be graduated in equivalent pounds, if so stated when ordering.

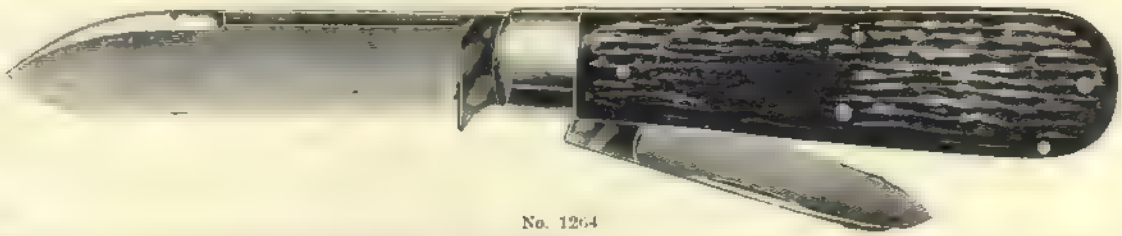
# Pocket Knives.

## German.

Full Size Cuts.

No. 2649.

**No. 1649**—2¾ in., One Blade, Ebony Handle, Iron Lined, Iron Bolster.....Per Dozen, $2 00
**No. 2649**—2¾ in., Two " " " " " " " " " " 3 00



No. 1264

**No 1264**—3½ in., Two Blades, Stag Handle, Iron Lined, Iron Bolster .....Per Dozen, $3 50

No. 1086

**No. 1086**—3½ in., Two Blades, Rosewood Handle, Iron Lined, Iron Bolster, Easy Opener .....Per Dozen, $3 50

**No. 1250**—3½ in., Two Blades, Ebony Handle, Iron Lined, Iron Bolster, with Chain and Ring .....Per Dozen, $4 50

No. 3087

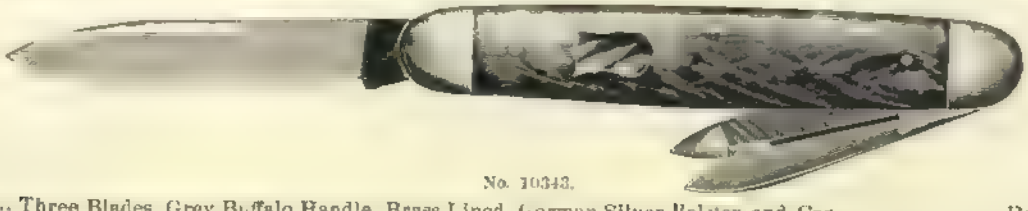
**No. 3087**—4½ in., One Blade, Stag Handle, Iron Lined, Steel Bolster, Lock Back. .....Per Dozen, $16 00
All Half Dozen in a Box.

# Pocket Knives.

## German.

No. 11109

**No. 11109**—3⅝ in., Three Blades, Pearl Handle, Brass Lined, German Silver Bolster and Cap, Polished Blades . Per Dozen, $10 00



No. 10343.

**No. 10343**—3⅝ in., Three Blades, Grey Buffalo Handle, Brass Lined, German Silver Bolster and Cap.....Per Dozen, $10 00
**No. 10342**—3⅝ " " " White Bone " " " " " " " " " " " " 10 00

No. 11165.

**No. 11165**—3¼ in., Four Blades, Pearl Handle, Brass Lined, German Silver Bolster and Cap . . . Per Dozen, $10 00

No. 11175.

**No. 11175**—3½ in., Three Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap.. . .Per Dozen, $10 00

No. 10815.

**No. 10815 Stg.**—3½ in., Four Blades, Stag Handle, Brass Lined, German Silver Tip Bolster and Cap. . . Per Dozen, $10 00
**No. 10815 G B.**—3½ " " " Grey Buffalo Handle, Brass Lined, German Silver Tip Bolster and Cap. . . " " 10 00
**No. 10815 W.**—3½ " " " White Bone " " " " " " " " " " 10 00

No. 11182.

**No. 11182**—3⅝ in., Three Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap . . . . . Per Dozen, $10 00
All Half Dozen in a Box.

# Compasses.

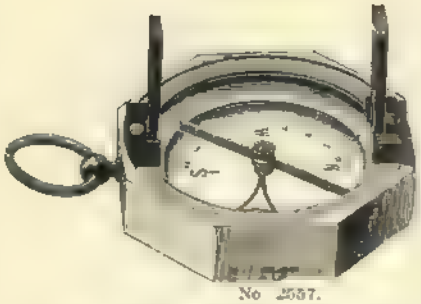
## Marine, Dry.

No. 2541

**No. 2540**—Round Wooden Box, 2 in Card, 2½ in. Diameter, Weight Each, ¼ lb. . . . Each. 85 00
**No. 2541** " Brass " 2 " " 2¼ " " " " ¼ " . . . . " 2 00
**No 2541** " " " 3 " " 3¼ " " " " ⅜ " . . . . " 2 50
**No. 2542** " " " Gimballed 2 in Bowl, 2¼ in. Gimbal Ring, 2¾ in. Box, 3 in. Milled Edge, Brass Cover, Weight Each, 1 lb. . . . . Each. 5 00

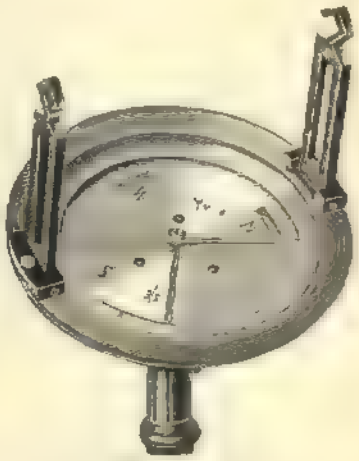
One in a Box

## Surveying.



No 2557.

No 2558.



Nos. 2559½ and 2560

**No. 2557**—2⅝ in. Brass Pocket Surveying Compass, Octagon Case with Open Face and Folding Sights, Engraved Silvered Metal Dial and Raised Ring Divided from 0° to 360°, Clinometer Attachment, Bar-needle with Agate Cap and Stop, Weight Each, ¼ lb . . . . . Each. 36 00

**No. 2558**—2⅝ in. Nickel Plated Pocket Surveying Compass, with Pull-off Cover and Folding Sights, Engraved Silvered Metal Dial Divided from 0 to Each 90°, Heavy Bar-needle with Jeweled Cap and Stop, Weight Each ½ lb . . . . . Each. 10 00

**No. 2559½**—3 in Brass Pocket Surveying Compass, with Folding Sights with Angular Hooks, Engraved Silvered Metal Dial with Raised Ring Divided from 0 to 360°, Jewelled Brass Cap and Stop to Needle Socket for Jacob's Staff with Ball Point Packed in Polished Mahogany Box with Hinged Cover. Weight Each 2 lbs. . . . . Each. 12 00

**No 2560**—3½ in Brass Pocket Surveying Compass, with Folding Sights with Angular Hooks, Engraved Silvered Metal Dial, with Raised Ring Divided from 0 to 360°, Jewelled Brass Cap and Stop to Needle, Two Spirit Levels Visible through Dial, Socket for Jacob's Staff with Universal Joint. Packed in Polished Mahogany Box with Hinged Cover. Weight Each, 3 lbs . . . . . Each. 15 00

# Pocket Compasses.

Nos. 2500 and 2502

No. 2503N

No. 2538

**No 2500** 1¼ in., Brass with Ring, Open Face Card Dial, Brass Cap on Needle, Weight per Dozen, 1½ lbs. Per Dozen, $ 5 00
**No. 2500** 1½ " " " " " " " " " " " " " " " " 1½ " " " 6 00
**No. 2500** 2 " " " " " " " " " " " " " " " " 2 " " " 10 00
**No. 2502½** 1½ " " " " " Silvered Metal " " " " " " " " " " 1½ " " " 10 00
**No 2502** 2 " " " " " " " " " " " " " " " " 2½ " " " 12 00
**No. 2503N**—1¾ " Nickel Plated with Slip Cover, Engraved Silvered Metal Dial, Brass Cap on Needle, Weight per Dozen, 2½ lbs ..... Per Dozen. 18 00
**No 2538** —2 in., Brass with Slip Cover, Engraved Oxidized Metal Dial, with Silvered Raised Ring, Divided from 0° to 360°, Bar Needle with Jeweled Cap and Stop, Weight per Dozen, 3 lbs. . . . . Per Dozen, 30 00

## Hunting Case.

No. 2510

No 2518

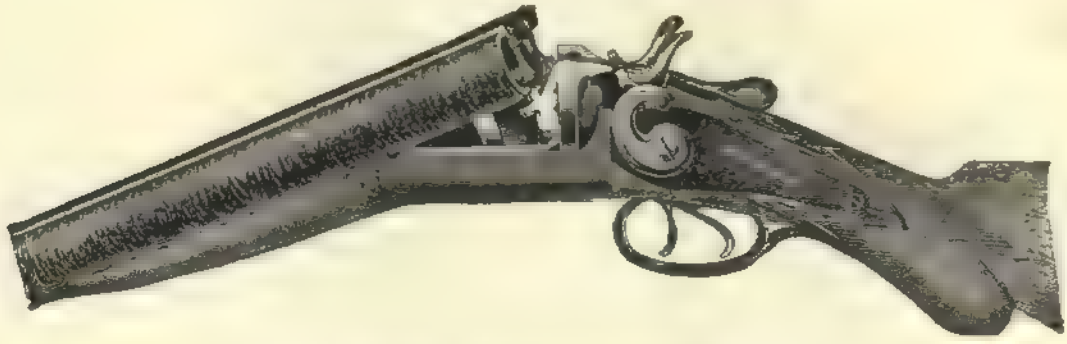
**No 2510** 2½ in., Nickel Compass, with Ring and Hinged Cover, Engraved Silvered Metal Dial, Divided from 0 to 360, Agate Cap and Stone to Needle, Weight per Dozen, 2 lbs. ..... Per Dozen, 330 00
**No 2518**—1¾ in., Oxidized Hunting Case Compass, with Spring Cover, Engraved Silvered Metal Dial, Divided from 0 to each 90°, Heavy Bar Needle with Jeweled Cap and Automatic Stop. Weight per Dozen, 2 lbs. . . . . Per Dozen, 40 00

# Marine and Field Glasses.

**No. 2093**—Morocco Covered and Japanned Finish, Achromatic Lenses, Good Quality in Leather Case with Strap, 26 Lignes. . . . . Each, $10 00
**No. 2005**—Calmont, Paris, Morocco Covered Japanned Finish Achromatic Power Lenses, in Leather Case with Strap, 26 Lignes. . . . . Each, 15 00
**No. 2003**—Lemaire, Paris, Morocco Covered, Powerful Achromatic Lenses, in Velvet Lined Leather Case with Strap, 26 Lignes . . . . . Each, 20 00
**No. 2010**—Lemaire, Paris Body of instrument Covered with Black Morocco, Metal Parts Black Japanned, With Extra Powerful Achromatic Lenses, in Leather Case with Strap, 26 Lignes. . . . . Each, 24 00
**No. 2087**—Lemaire, Paris, "Liverpool" Shape, Morocco Covered Metal Parts, Black Japanned, with Extra Powerful Achromatic Lenses in Leather Case with Strap, 26 Lignes. . . . . Each, 25 0

# Double Barrel Shot Guns.

## Pieper Machine Made Hammer.

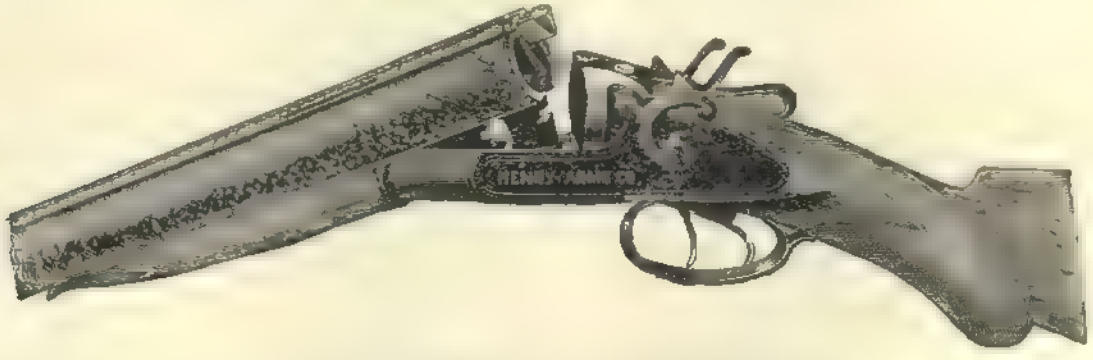


12 Gauge, Left Barrel Full Choke.

**No. 200** Top Lever, Twist Finished Barrels Back Action, Rebounding Locks, Checkered Pistol Grip and Fore end, Plain Extension Rib, Circular Hammers and Solid Head Plungers, Checkered Steel Butt, 12 Gauge, Weight 7¼ to 8 lbs.....Each, $16 00

12 Gauge, Left Barrel Full Choke.

**No. 210**—Top Lever, Twist Finished Barrels, Walnut Stock, Bar Action, Rebounding Locks, Checkered Pistol Grip and Fore-end, Plain Extension Rib, Circular Hammers and Solid Head Plungers, Checkered Steel Butt, 12 Gauge, Weight 7¼ to 8 lbs.....Each, $17 00

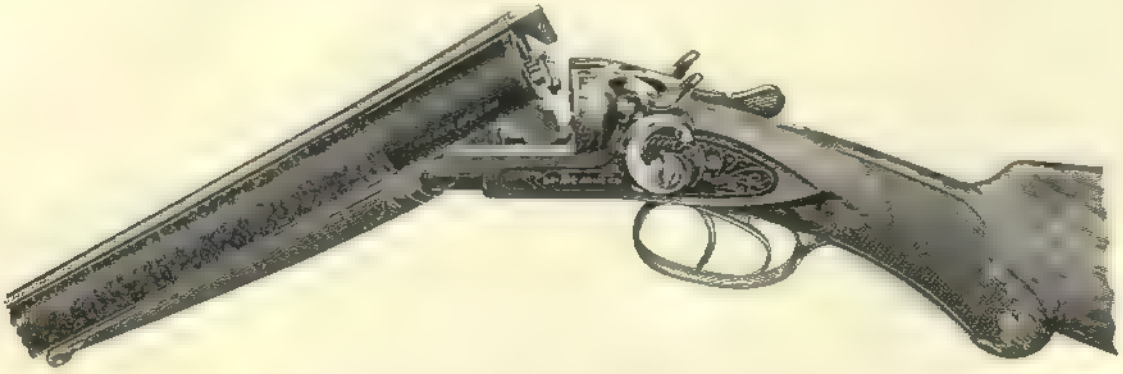


12 and 16 Gauge, Left Barrel Full Choke.

**No. 220**—Top Lever, Damascus Finished Barrels Bar Action, Rebounding Locks, Matted Extension Rib, Checkered Pistol Grip and Fore end, Circular Hammers and Solid Head Plungers, Rubber Butt, 12 Gauge, Weight 7¼ to 8 lbs., 16 Gauge, Weight 6½ to 7 lbs.....Each, $18 00

# Double Barrel Shot Guns.

## Pieper Machine Made Hammer.



**12 and 16 Gauge, Left Barrel Full Choke.**

**No. 230**—Top Lever, Oxford Damascus Finished Barrels, Bar Action, Rebounding Locks, Patent Reinforced Breech, Engraving on Frame, Checkered Pistol Grip and Fore-end, Extension Matted Rib, Rubber Butt . . . . . Each, $18 50

12 Gauge, Weight 7¼ to 8 lbs. 16 Gauge, Weight 6½ to 7 lbs.

**12 Gauge, Left Barrel Full Choke.**

**No. 240**—Top Lever, Twist Finished Barrels, Patent Reinforced Breech, Bar Action, Rebounding Locks, Matted Extension Rib, Circular Hammers, Checkered Pistol Grip and Fore-end, Checkered Rubber Butt . . . . . Each, $19 00

12 Gauge, Weight 7¼ to 8 lbs.

**12 Gauge, Left Barrel Full Choke.**

**No. 250**—Top Lever, Oxford Damascus Finished Barrels, Bar Action, Rebounding Locks, Patent Reinforced Breech, Fitted with Greener Treble Wedge Cross Bolt, Checkered Pistol Grip and Fore-end, Extension Matted Rib, Rubber Butt. . . . . Each, $21 00

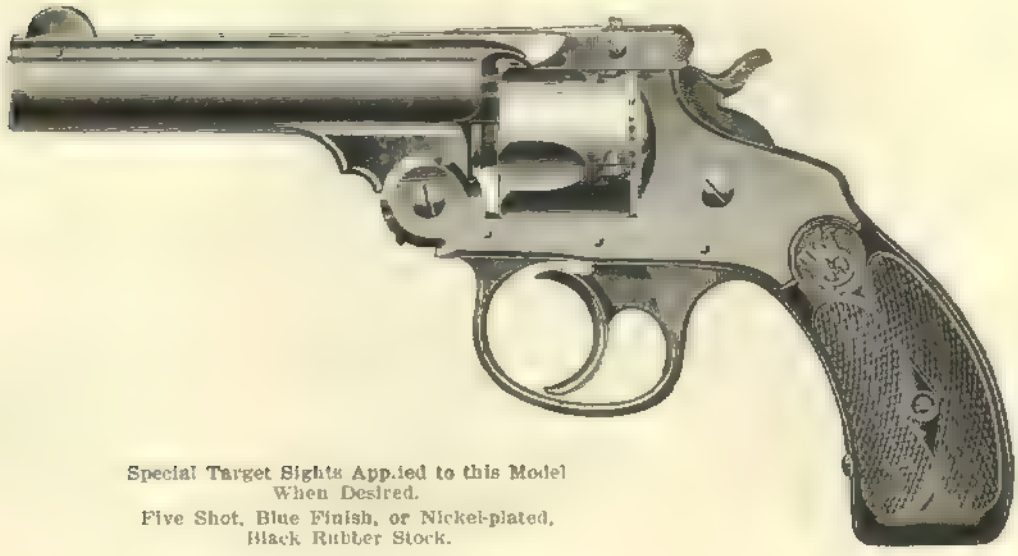
12 Gauge, Weight 7¼ to 8 lbs

# Smith & Wesson Revolvers.

## Double Action.

Cut Showing Action with Automatic Shell Extractor.

## Double Action .32 and .38 Caliber.



Special Target Sights Applied to this Model When Desired.
Five Shot, Blue Finish, or Nickel-plated, Black Rubber Stock.

.32 Caliber.

| **Length of Barrel**, inch..... | **3** | **3½** |
|---|---|---|
| Weight Each, oz..... | 12½ | 12¾ |
| Each ..... | $12 00 | 12 50 |

Pearl Stock for .32 D. A. add $2 25.

.38 Caliber.

| **Length of Barrel**, inch.. | **3¼** | **4** | **5** | **6** |
|---|---|---|---|---|
| Weight Each, oz..... | 17 | 17¼ | 18½ | 19 |
| Each ..... | $14 00 | 14 50 | 15 00 | 15 50 |

Pearl Stock for .38 D. A. add $3 00.

Single Action Revolver, Same Lengths, $1.00 Less Than Above Prices.

For Component Parts see Page 1099.

# Smith & Wesson Revolvers.

## .32 Hammerless Safety.

With Automatic Shell Extractor, Rebounding Lock and Patent Safety Attachment, Caliber .32-100, Central Fire, Five Shot, Weight, 14 ounces, Lengths of Barrel, 3 and 3½ in., Blue Finish or Nickel Plated Black Rubber Stock . . . . . Each $14 00
Pearl Stocks for .32 S. & W. Hammerless . . . . . Add, 2 25

## .38 Hammerless Safety.

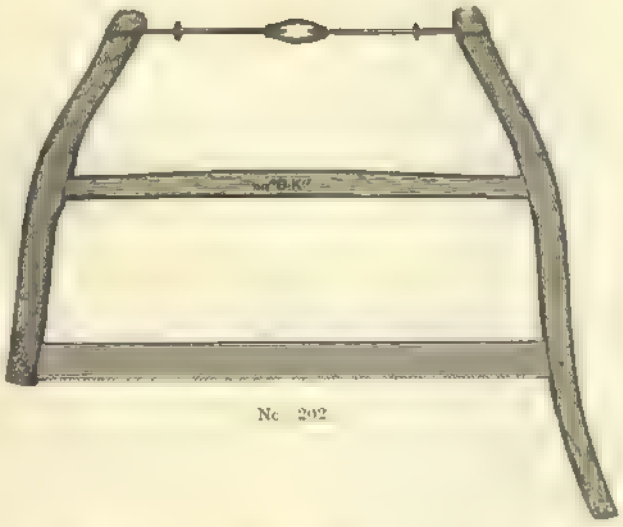
With Automatic Shell Extractor, Rebounding Lock and Patent Safety Attachment; Caliber, .38-100; Central Fire; Five Shot; Weight, 18½ ounces, Lengths of Barrel, 3¼, 4, 5 and 6 inches; Blue Finish or Nickel-plated; Black Rubber Stock.

| **Length of Barrel,** inch | **3¼** | **4** | **5** | **6** |
|---|---|---|---|---|
| Weight Each, ounces | 16½ | 17¼ | 18½ | 19 |
| Each | $15 00 | 15 50 | 16 00 | 16 50 |
| Pearl Stocks for .38 S. & W. Hammerless | | | Add, | $3 00 |

For Component Parts see Page 1100

# Wood Saws.

## Atkins'.



No. 202

**No. 202**—Common White Frame, Cast Steel Blade, with Clipper Loop Rod, Weight per Dozen, 45 lbs.....Per Dozen, $8 00

Half Dozen in a Case.

No. 302

**No. 302**—Red Frame, Selected Stock, Cast Steel, Blued Blade, with Tinned Clipper Loop Rod, Weight per Dozen, 45 lbs .....Per Dozen, $9 00

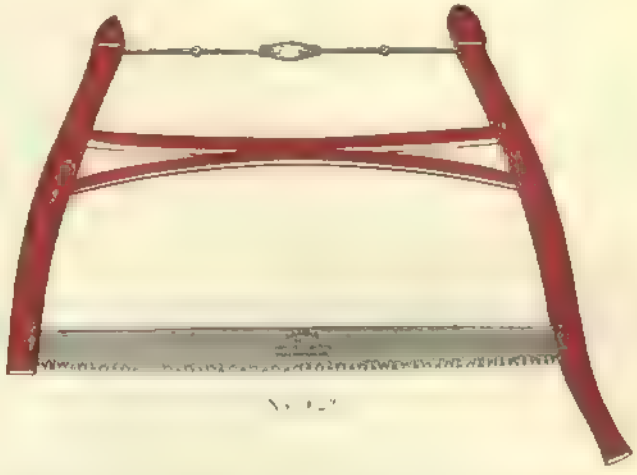
Half Dozen in a Case.

No. 618

## Columbia.

**No. 618**—Braced Red Frame, Selected Stock, High Finish, Cast Steel, Blued Blade, with Clipper Loop Rod, Weight per Dozen, 50 lbs .....Per Dozen, $13 00

Half Dozen in a Case.

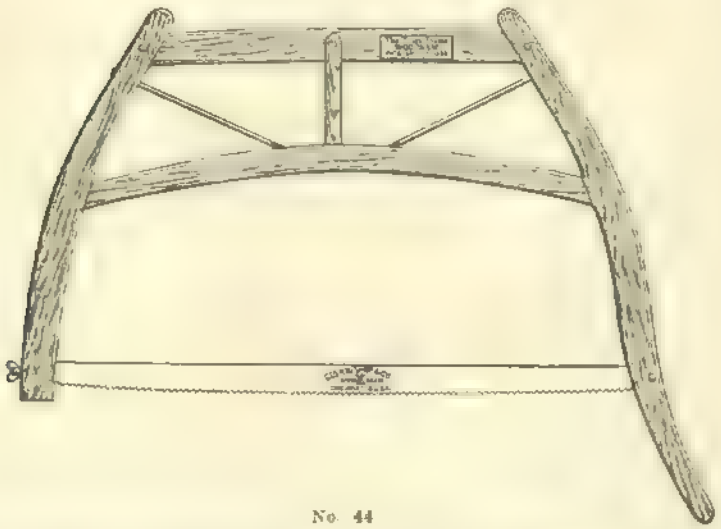


No. 623

**No. 623**—Braced Red Frame, Selected Stock, High Finish, Cast Steel, Blued Tut the Tooth Blade, with Clipper Loop Rod, Weight per Dozen, 50 lbs..... .....Per Dozen, $14 00

Half Dozen in a Case.

# Truss Frame Wood Saw.



No. 44

There is no Stretching Rod to Break nor Threads to strip It being a Truss Frame, can be Strained to Any Desired Tension. The Blade can be removed without trouble or taking Frame apart. The Blade can be Drawn to Such a Degree of Stiffness as to Prevent it from Buckling. The Frame Is Made of Select Maple Wood, Well Seasoned Oiled and Varnished Natural Color. The Blades are Exceedingly Well Made from High-Grade Steel, Hand Filed and Set, and thoroughly warranted.

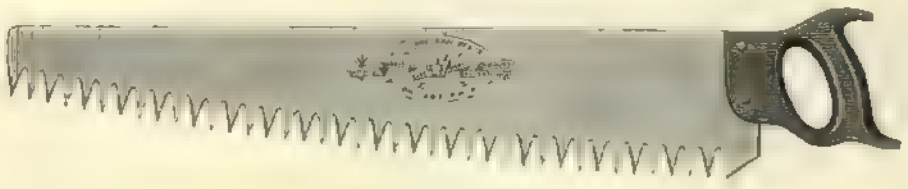
**No. 44**—With Blue Clock Spring Blades, Weight per Dozen, 50 lbs. . . . . Per Dozen, $15 00

Half Dozen in a Box.

# Handy Hand Saw.

**Wheeler, Madden & Clemson's**—Handy Hand Saws, 26 in. Blade, Weight per Dozen, 24 lbs. . Per Dozen, $9 00

# Ice Saws.



## Wood Handle.

**Beech Handle**—Length 28 inch, Weight per Dozen, 35 lbs. . . . . Per Dozen, $13 40
**Beech Handle** " 30 " " " 39 " . . . . . " " 14 40

## Iron Handle.

**Iron Handle**—Length 28 in., Weight per Dozen, 40 lbs. . . . . Per Dozen, $15 40
**Iron Handle** " 30 " " " 48 " . . . . . " " 16 40

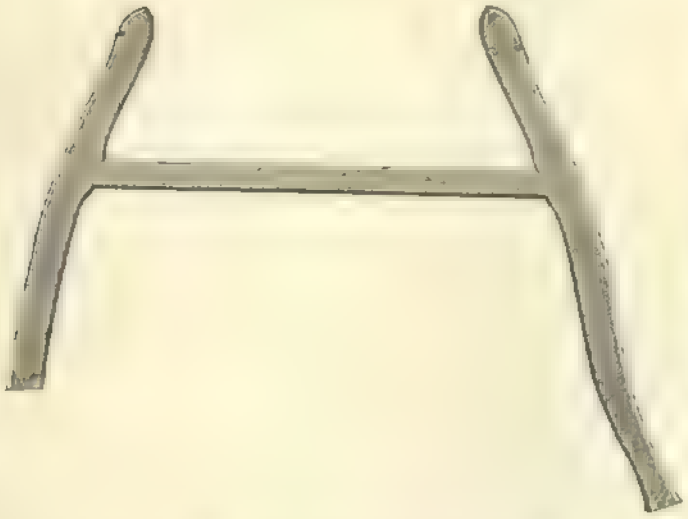
# Saw Rods.

No. 11

**No. 11**—Loop Rod, Length 22 in., Heavy Malleable Nuts, Weight per Dozen, 6 lbs . . . . . Per Dozen, $1 88
One Dozen in a Package.

# Wood Saw Frames.

## Common.



No. 1.

**No. 1**—Common, White Wood, Weight per Dozen, 33 lbs. ..... Per Dozen, $2 00

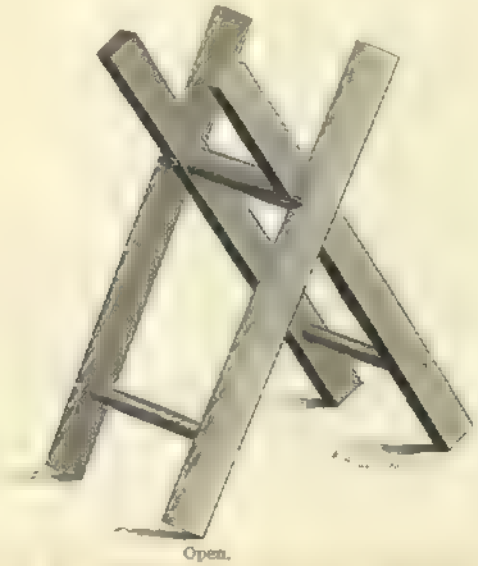
## Double Brace.

No. 50.

**No. 50**—Double Brace, Painted Red, Weight per Dozen, 33 lbs . . . . . Per Dozen, $4 50

# Saw Bucks.

## Hoosier.



Open.

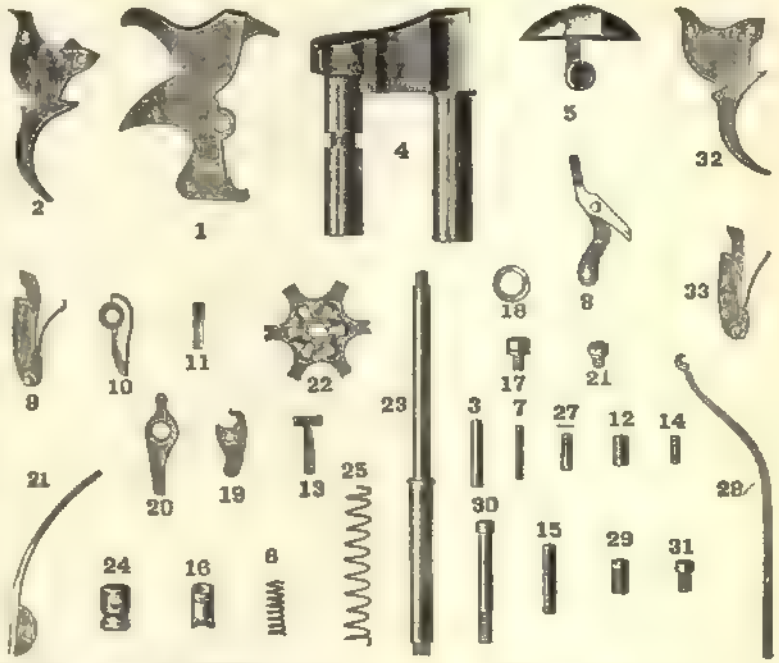
Closed.

**Hoosier Folding**—Hard Wood, Malleable Iron Locks, Revolving Center Bar, Weight per Dozen, 88 lbs . . . . . Per Dozen, $7 50

# COMPONENT PARTS OF COLT'S REVOLVERS.

## NEW NAVY AND NEW ARMY DOUBLE ACTION.

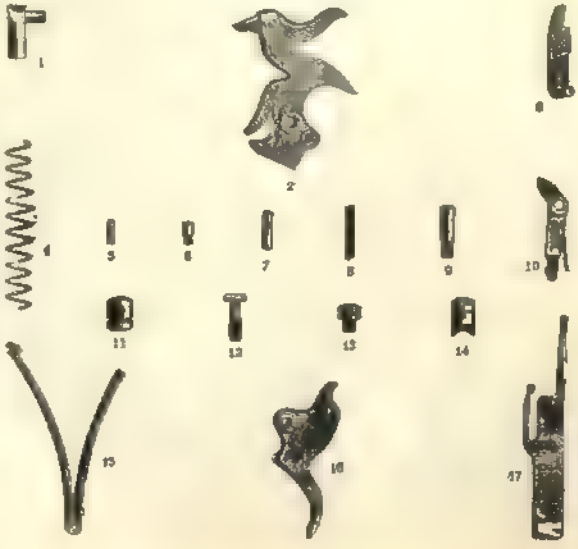
| No. | | |
|---|---|---|
| 1 | Hammer | $3 00 |
| 2 | Trigger | 1 20 |
| 3 | Trigger Pin | 06 |
| 4 | Crane | 5 00 |
| 5 | Latch | 1 50 |
| 6 | Latch Spring | 04 |
| 7 | Latch Pin | 04 |
| 8 | Rebound Lever | 08 |
| 9 | Hand and Hand Spring | 70 |
| 10 | Strut | 50 |
| 11 | Strut Spring | 12 |
| 12 | Strut Pin | 06 |
| 13 | Hammer Stirrup | 40 |
| 14 | Hammer Stirrup Pin | 04 |
| 15 | Hammer Pin | 06 |
| 16 | Crane Lock | 60 |
| 17 | Crane Lock Screw | 14 |
| 18 | Crane Bushing | 10 |
| 19 | Bolt and Bolt Spring | 50 |
| 20 | Loading Lever | 20 |
| 21 | Locking Lever Screw | 10 |
| 22 | Ejector and Ratchet | 1 50 |
| 23 | Ejector Rod | 60 |
| 24 | Ejector Head | 30 |
| 25 | Ejector Spring | 20 |
| 26 | Rebound Spring | 70 |
| 27 | Rebound Spring Pin | 06 |
| 28 | Mainspring | 70 |
| 29 | Mainspring Set Screw | 10 |
| 30 | Stock Screw | 10 |
| 31 | Side Plate Screw | 10 |
| 32 | Trigger, '80 Model | 1 20 |
| 33 | Hand and Hand Spring, '80 Model | 70 |
| 34 | Barrel | $ 4 00 |
| 35 | Cylinder | 6 50 |
| 36 | Swivel Ring | 10 |
| 37 | Swivel Stud | 20 |
| 38 | Lock Frame | 11 00 |
| 39 | Stocks | Per pair, $1 50 |
| 40 | Escutcheons | Per set, .10 |
| 41 | Recoil Plate | 10 |
| 42 | Side Plate | 2 00 |




## NEW POCKET, NEW POLICE, AND NEW POLICE TARGET DOUBLE ACTION.

32 Caliber

| No. | | |
|---|---|---|
| 1 | Latch Pin | $0.30 |
| 2 | Hammer, complete | 3.00 |
| 3 | Hand | .80 |
| 4 | Ejector Spring | .20 |
| 5 | Hammer Stirrup Pin | .04 |
| 6 | Bolt Screw | .10 |
| 7 | Lever Pin | .06 |
| 8 | Latch Spring | .04 |
| 9 | Hammer Pin | .06 |
| 10 | Bolt and Spring | .80 |
| 11 | Ejector Rod Head | .30 |
| 12 | Hammer Stirrup | .40 |
| 13 | Crane Lock Screw | .14 |
| 14 | Crane Lock | .50 |
| 15 | Mainspring | 1 00 |
| 16 | Trigger | 1 20 |
| 17 | Lever | 1 50 |
| 18 | Barrel, 2½ or 3½ inch | 2.50 |
| 19 | Barrel, 6 inch | $ 4.00 |
| 20 | Cylinder | 6.00 |
| 21 | Frame with Crane Lock and Cap | 15.00 |
| 22 | Ejector | 1.50 |
| 23 | Side Plate | 1 60 |
| 24 | Ejector Rod | .50 |
| 25 | Recoil Plate | .10 |
| 26 | Strut | .50 |
| 27 | Strut Spring | .12 |
| 28 | Strut Pin | .06 |
| 29 | Crane | 4 50 |
| 30 | Crane Bushing | .20 |
| 31 | Latch | 1 50 |
| 32 | Stocks, Per pair, | 1.50 |
| 33 | Stock Screws | .10 |
| 34 | Escutcheons, Per set, | .10 |

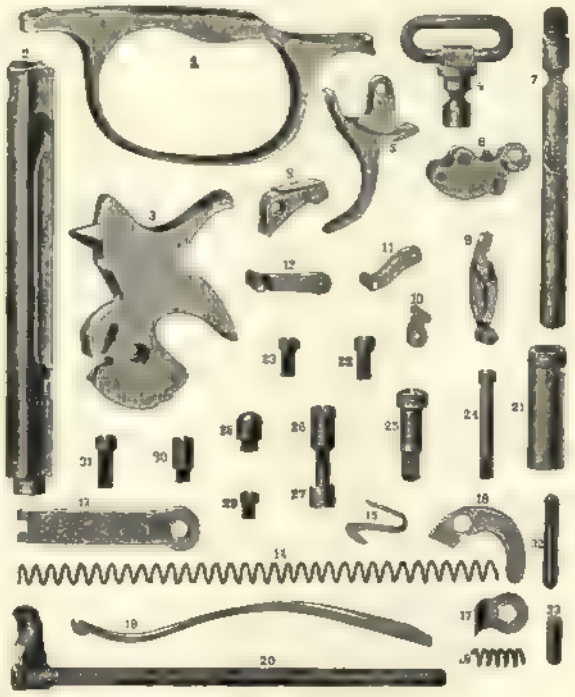


# COMPONENT PARTS OF COLT'S REVOLVERS.

## DOUBLE ACTION ARMY, 45 CALIBER.

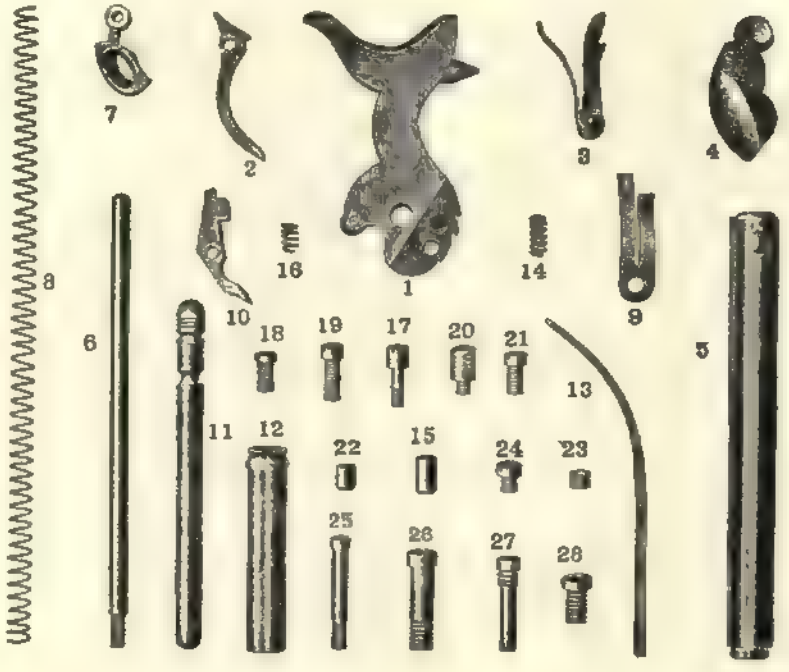
| No. | Each |
|---|---|
| 1—Guard | $3 00 |
| 2—Ejector Tube | 3 00 |
| 3—Hammer | 2 50 |
| 4—Swivel Ring and Stud | .50 |
| 5—Trigger | 1 00 |
| 6—Saddle | 2 00 |
| 7—Mast Pin | .84 |
| 8—Rear Sight | 1 00 |
| 9—Hand | .50 |
| 10—Saddle Strap | .50 |
| 11—Hammer Strap | .50 |
| 12—Screw | .50 |
| 13—Trigger Spring | .80 |
| 14—Ejector Spring | .24 |
| 15—Strap and Hand Spring | .20 |
| 16—Latch Spring | .40 |
| 17—Sear Spring | .20 |
| 18—Base Pin Catch Spring | .04 |
| 19—Mainspring | 1 00 |
| 20—Ejector Rod and Head | 1 54 |
| 21—Cylinder Bushing | .80 |
| 22—Rear Guard Screw | .10 |
| 23—Mainspring Set Screw | $ 0.10 |
| 24—Stock Screw | .10 |
| 25—Hammer Screw | .10 |
| 26—Base Pin Catch Nut | .10 |
| 27—Base Pin Catch Screw | .10 |
| 28—Gate Screw | .10 |
| 29—Gate Spring Screw | .10 |
| 30—Ejector Tube Screw | .10 |
| 31—Front Guard Screw | .10 |
| 32—Trigger and Sear Pin | .06 |
| 33—Swivel Pin | .04 |
| 34—Cylinder | 6 00 |
| 35—Cylinder Ratchet | 2 00 |
| 36—Barrel | 6 00 |
| 37—Barrel Sight | .50 |
| 38—Lock Frame | 14 00 |
| 39—Lock Frame Cap | 1 00 |
| 40—Lock Frame Gate | 2 00 |
| 41—Recoil Plate | .10 |
| 42—Stocks Per pair, | 1 50 |
| 43—Escutcheons Per set, | .10 |

In ordering, give the number of part.



## SINGLE ACTION ARMY AND BISLEY MODEL.

| No. | Each |
|---|---|
| 1—Hammer | $ 1 70 |
| 2—Trigger | .44 |
| 3—Hand and Hand Spring | .54 |
| 4—Gate | 2 00 |
| 5—Ejector Tube | 3 00 |
| 6—Ejector Rod | .54 |
| 7—Ejector Head | 1 00 |
| 8—Ejector Spring | .24 |
| 9—Sear and Bolt Spring | .16 |
| 10—Bolt | .54 |
| 11—Base Pin | .84 |
| 12—Base Pin Bushing | .80 |
| 13—Mainspring | .70 |
| 14—Gate Spring | .04 |
| 15—Base Pin Catch | .10 |
| 16—Base Pin Catch Spring | .04 |
| 17—Base Pin Catch Screw | .10 |
| 18—Front Guard Screw | .10 |
| 19—Rear Guard Screw | .10 |
| 20—Ejector Tube Screw | .10 |
| 21—Back Strap Screw | .10 |
| 22—Gate Catch | .04 |
| 23—Gate Catch Screw | .10 |
| 24—Sear and Bolt Spring Screw | .10 |
| 25—Stock Screw | .10 |
| 26—Hammer Screw | .10 |
| 27—Trigger and Bolt Screw | .10 |
| 28—Mainspring Screw | .10 |
| 29—Lock Frame | 12 00 |
| 30—Barrel | 6 00 |
| 31—Barrel Sight | .50 |
| 32—Cylinder | 6 00 |
| 33—Firing Pin | .20 |
| 34—Trigger Guard | 3 30 |
| 35—Back Strap | 2 50 |
| 36—Stocks Per pair, | 1 50 |
| 37—Escutcheons Per set, | .10 |
| 38—Recoil Plate | .10 |



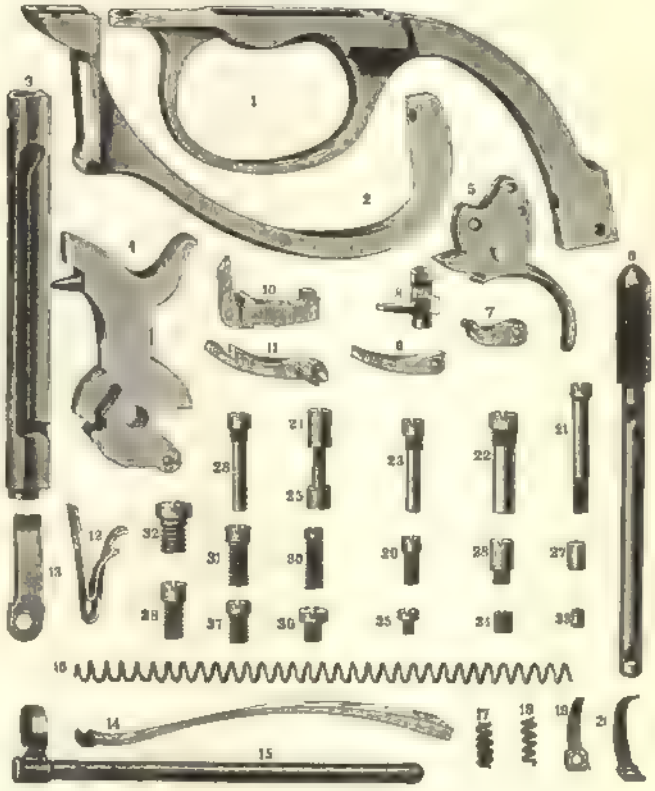
In ordering, give the number of part.

PACIFIC HARDWARE & STEEL COMPANY

# COMPONENT PARTS OF COLT'S REVOLVERS.

## DOUBLE ACTION.
## 38 AND 41 CALIBERS.

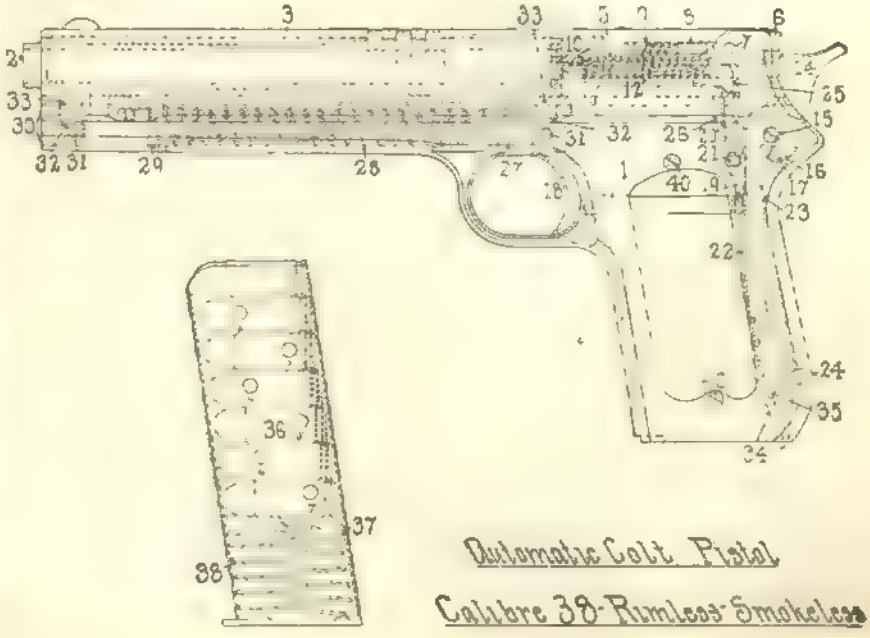
| No. | | No. | |
|---|---|---|---|
| 1—Guard | $3.00 | 25—Base Pin Catch Screw | $ 0 10 |
| 2—Strap | 2 50 | 26—Sear Screw | 10 |
| 3—Ejector Tube | 2 50 | 27—Gate Catch | 04 |
| 4—Hammer | 2 25 | 28—Ejector Tube Screw | 10 |
| 5—Trigger | 1 00 | 29—Front Strap Screw | 10 |
| 6—Base Pin | 1 00 | 30—Mainspring Screw | .10 |
| 7—Hammer Strut | .50 | 31—Rear Guard Screw | .10 |
| 8—Sear | .06 | 32—Mainspring Screw | .10 |
| 9—Strut | .50 | 33—Trigger Roll | .10 |
| 10—Bolt | .06 | 34—Latch Screw | 10 |
| 11—Hand | 48 | 35—Hand and Strut Spring Screw | .10 |
| 12—Sear and Bolt Spring | 40 | 36—Trigger Sp'ng Screw | .10 |
| 13—Trigger Spring | 50 | 37—Front Guard Screw | .10 |
| 14—Mainspring | 80 | 38—Rear Strap Screw | .10 |
| 15—Ejector Rod and Head | 1 00 | 39—Ejector Rod, only | .40 |
| 16—Ejector Spring | 20 | 40—Ejector Head, only | .60 |
| 17—Gate Spring | 04 | 41—Cylinder | 4 50 |
| 18—Base Pin Catch Spring | 04 | 42—Barrel | 3 00 |
| 19—Strut Spring | 20 | 43—Barrel Sight | 50 |
| 20—Hand Spring | 20 | 44—Lock Frame | 12 00 |
| 21—Stock Screw | 10 | 45—Lock Frame Gate | 1 50 |
| 22—Hammer Screw | 10 | 46—Stocks, Pr. pair | 1 50 |
| 23—Trigger Screw | 10 | 47—Escutcheons, Set | 10 |
| 24—Base Pin Catch Nut | 10 | | |



In ordering, give number of part.

## AUTOMATIC COLT'S PISTOL, 38 CALIBER, RIMLESS, SMOKELESS.

| No. | Each |
|---|---|
| 1—Receiver | $24 00 |
| 2—Barrel | 6 00 |
| 3—Slide | 6 00 |
| 4—Firing Pin | 90 |
| 5—Firing Pin Spring | 04 |
| 6—Firing Pin Lock and Rear sight | 40 |
| 7—Firing Pin Lock Pin | .04 |
| 8—Firing Pin Lock Stop | .06 |
| 9—Firing Pin Lock Stop Spring | .04 |
| 10—Shell Extractor | 30 |
| 11—Shell Extractor Spring | 20 |
| 12—Shell Extractor Pin | 04 |
| 13—Slide Lock | 30 |
| 14—Hammer | 80 |
| 15—Hammer Screw | 06 |
| 16—Hammer Rod | 06 |
| 17—Hammer Rod Pin | 04 |
| 18—Trigger | 1 80 |
| 19—Sear | 80 |
| 20—Safety | 70 |
| 21—Sear and Safety Pin | 04 |
| 22—Sear, Safety and Trigger Spring | 20 |
| 23—Mainspring | .50 |
| 24—Mainspring Screw | |
| 25—Lanyard | 60 |
| 26—Lanyard Pin | 02 |
| 27—Recoil Spring | .30 |
| 28—Retractor Spring | .50 |
| 29—Lockwork | 50 |
| 30—Plug | 50 |
| 31—Plug and Links Pin, long | 04 |
| 32—Links (2) | 10 |
| 33—Link Pin, short | .02 |
| 34—Magazine Catch | 50 |
| 35—Magazine Catch Pin | 04 |
| 36—Magazine, tubing only | 1 20 |
| 37—Magazine follower | 10 |
| 38—Magazine Spring | 70 |
| 39—Scales, (2) right and left hand, an Escutcheons | 68 |
| 40—Scale Screws, (4) | 04 |
| 41—Magazine, complete | 3 00 |

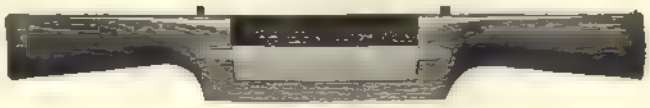


Automatic Colt Pistol
Calibre 38 Rimless Smokeless

# SPOKESHAVES.

## WOOD.

### WITHOUT SCREWS.



Beechwood, Plain

| Nos. | 80 | 82 |
|---|---|---|
| Size of cutter, inch | 2½ | 3 |
| Weight, lbs. | 2¼ | 3½ |
| Per dozen | $3 25 | 3 75 |

One-half dozen in box.

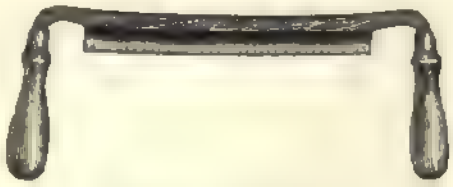
### WITH SCREWS

Beechwood, Plated

| Nos. | 86 | 88 |
|---|---|---|
| Size of cutter, inch | 2½ | 3 |
| Weight, lbs. | 3¼ | 4¼ |
| Per dozen | $9 00 | 9.50 |

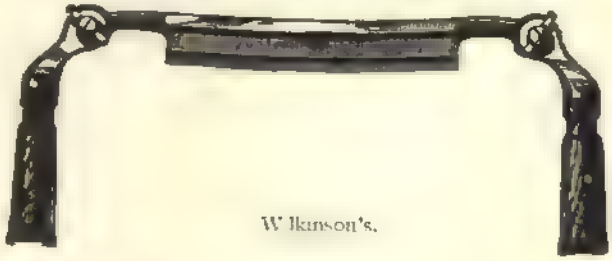
# DRAWING KNIVES.

### CARPENTERS' RAZOR BLADE.



Crescent No. 1 and Barton's.

### CARPENTERS' FOLDING HANDLE.



Wilkinson's.

### CARPENTERS' RAZOR BLADE

1¼-inch Blade. Polished Hickory Handles, Capped and Ferruled.

| Crescent No. 1—Length, inch | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 16 |
|---|---|---|---|---|---|---|---|---|
| Weight, lbs. | 12½ | 14 | 15½ | 16 | 17 | 19 | 24 | 27 |
| Per dozen | $17.00 | 18 00 | 19.00 | 20.00 | 21.00 | 23 00 | 26.00 | 29 00 |

1½-inch Blade. Black Walnut Handles, Capped and Ferruled.

| Barton's—Length, inch | 8 | 9 | 10 | 12 |
|---|---|---|---|---|
| Weight, lbs. | 20½ | 21½ | 23 | 26 |
| Per dozen | $12 00 | 13 00 | 14 00 | 16 00 |

One-half dozen in package.

### CARPENTERS' FOLDING HANDLE

1⅜-inch Blade. Every Blade Warranted. Folding and Adjustable Handle.

| Wilkinson's—Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Length, inch | 6 | 7 | 8 |
| Weight, lbs. | 14 | 16 | 21 |
| Per dozen | $21 00 | 22 50 | 24 00 |

One-quarter dozen in package

### CARRIAGEMAKERS'.

Polished Hickory Handles. Capped and Ferruled.

¾ to 1-inch Blade.

| Ohio No. 1—Length, inch | 8 | 10 |
|---|---|---|
| Weight, lbs. | 12 | 14 |
| Per dozen | $20.00 | 22.00 |

### SHINGLE.

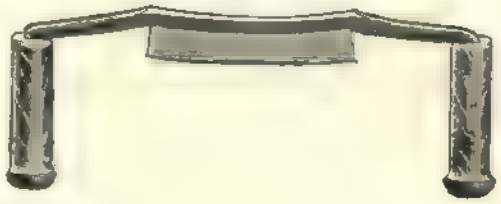
Black Walnut Handles. 2-inch Blade.

| Barton's—Length, inch | 12 | 14 | 16 |
|---|---|---|---|
| Weight, lbs. | 24 | 28 | 32 |
| Per dozen | $18.00 | 20.00 | 22 00 |

One-quarter dozen in package

# COOPERS' TOOLS.

## HOOP SHAVE.



| Nos. | 2 | 4 |
|---|---|---|
| Length, inch | 7 | 8 |
| Weight, lbs | 18 | 20 |
| Per dozen | $11.25 | 13.25 |

## HEADING SHAVE.

| Nos. | 6 | 8 |
|---|---|---|
| Length, inch | 10 | 12 |
| Weight, lbs | 32 | 36 |
| Per dozen | $18.50 | 22.50 |

## STAVE SHAVE.

| Nos. | 10 | 12 |
|---|---|---|
| Length, inch | 7 | 8 |
| Weight, lbs | 25 | 27 |
| Per dozen | $12 50 | 14 50 |

## BACKING SHAVE.

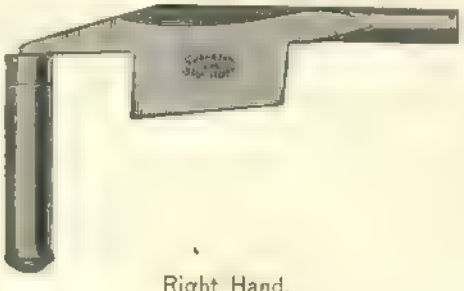
| Nos | 14 | 16 |
|---|---|---|
| Length, inch | 7 | 8 |
| Weight, lbs | 23 | 25 |
| Per dozen | $12 50 | 14 50 |

## HOLLOWING SHAVE.

| Nos. | 18 | 20 |
|---|---|---|
| Length, inch | 7 | 8 |
| Weight, lbs | 23 | 25 |
| Per dozen | $12 50 | 14.50 |

## CHAMFER KNIFE.

Left Hand.



Right Hand.

| Nos. | 22 | 24 | 26 |
|---|---|---|---|
| Length, inch | 4 | 5 | 6 |
| Weight, lbs | 42 | 51 | 63 |
| Per dozen | $15 00 | 18 50 | 22 50 |

All above, one-quarter dozen in package.

# COOPERS' TOOLS.

## SPOKESHAVE.

**No. 1**—Wood handle. Weight, 5 lbs.....Per dozen, $12.50

## INSHAVE.

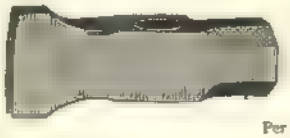
**No. 8**—Two handles. Weight, 7½ lbs ... . Per dozen, $11 50

## DRIVERS.

### SHORT AND OVAL.

| | | Per Dozen. |
|---|---|---|
| **No. 5**—Unhandled. | Weight, 13½ lbs. | $11.25 |
| **No. 7**—Handled. | " 16½ " | 13 25 |

### NANTUCKET.



| | | Per Dozen. |
|---|---|---|
| **No. 9**—Weight, 18 lbs..... | | $ 9 60 |
| **No. 11**— " | 38 " ..... | 19.20 |

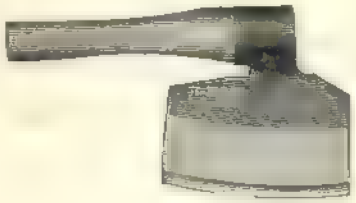
### HICKORY.

| | | Per Dozen. |
|---|---|---|
| **No. 13**—With ring. | Weight, 18 lbs.. | $3.50 |

## VISE.

| | | Per Dozen. |
|---|---|---|
| **No. 15**—Cast steel | Weight, 5 lbs.... | $5 00 |

## AXE.

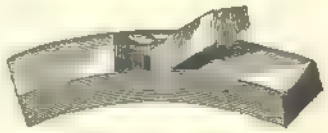


| | | Per Dozen. |
|---|---|---|
| **No. 17**—Tight barrel | Weight, 50 lbs | $33 00 |
| **No. 19**—Flour " | " 44½ " | 27.00 |

## ADZE.

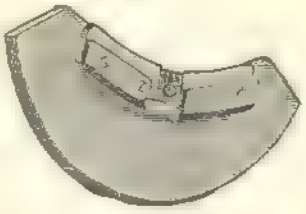
| | | Per Dozen. |
|---|---|---|
| **No. 21**—Tight barrel | Weight, 45 lbs | $30 00 |
| **No. 23**—Flour " | " 37 " | 27.00 |

## LEVELER.



**No. 25**—Beechwood. Tight barrel.
Weight, 28½ lbs. Per dozen, $10 50

## CROZE.

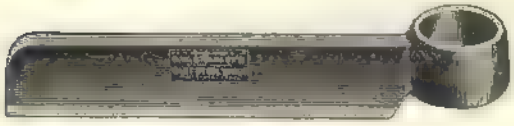


**No. 27**—Beechwood. Tight barrel.
Weight, 19½ lbs. Per dozen, $13 50

## HOWEL.

**No. 29**—Beechwood. Tight barrel
Weight, 39 lbs . .. Per dozen, $17.50

## FROE.



| Nos..... | 81 | 83 | 85 | 87 | 89 |
|---|---|---|---|---|---|
| Length, inch..... | 8 | 10 | 12 | 14 | 16 |
| Weight, lbs. | 42 | 48 | 54 | 60 | 66 |
| Per dozen.. .. ..... | $13 00 | 13 50 | 14.00 | 14 50 | 15 00 |

## JOINTER.

**No. 41**—Beechwood. Double iron. Length,
4 feet, 4 inches. Weight, 123 lbs.. ...Per dozen, $48 00

# LANTERNS.

## TUBULAR DASH.

No. 50.

## COLD BLAST DASH.

Nos. 18 and 118.

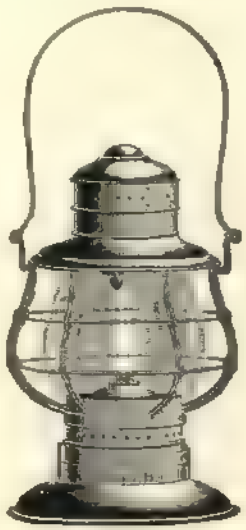
## CONDUCTORS'.

No. 336.

| | | | |
|---|---|---|---|
| **No. 50**—Japanned. Polished reflector. Convex lense. ½-inch wick. Weight, 39 lbs. | Per dozen, | $42.00 |
| **No. 18**— " Silvered " Double convex lense. ⅝-inch wick. Weight, 36 lbs. | " | 42.00 |
| **No. 118**—Nickel-plated. " " " " " ⅝ " " " 36 " | " | 54.00 |
| **No. 336**—Brass. Nickel-plated. Tank screws in. Pullman globe. ⅝ " " " 25 " | " | 72.00 |
| Extra lense for No. 50 lantern. Weight, 6 lbs. | " | 6.00 |

## RAILROAD.

No. 39½.



Nos. 139 to 339.

No. 39.

| | | |
|---|---|---|
| **No. 39½**—Wire guards and bottom. ⅝-inch wick. No. 39 globe. Weight, 29 lbs. | Per dozen | $15.00 |
| **No. 139** — " " tin " ⅝ " " " 39 " " 35 " | " | 12.00 |
| **No. 239** —Brass wire guards. Brass bottom. ⅝-inch wick. No. 39 globe. Weight, 35 lbs. | " | 33.00 |
| **No. 339** — " " " " " all nickel-plated. ⅝-inch wick. No. 39 globe. Weight, 35 lbs. | " | 43.00 |
| **No. 39** —Heavy flat tinned steel guards and bottom. ⅝-inch wick. No. 39 globe. Weight, 27 lbs. | " | 18.00 |

All railroad lanterns sent with lard oil burners, unless otherwise ordered. For coal oil burners, add 50 cents to list.

Nos. 50, 18, 118, one-half dozen; balance, one dozen in case.

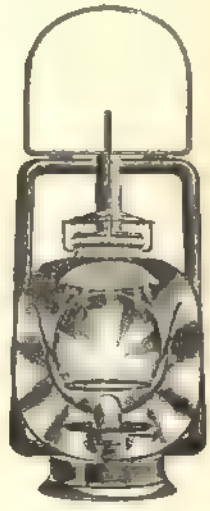
# LANTERNS.

## COLD BLAST.

No. 00.

Nos. 1 to 275

## TUBULAR HOOD.



No. 20.

| | | | |
|---|---|---|---|
| **No. 00**—All brass. ½-inch wick. No. 00 globe. Weight, 37 lbs | Per dozen, | $18.00 |
| **No. 1**—Ham's. Plain tin, ¾-inch wick. Cold blast globe. Weight, 45 lbs | " | 13.50 |
| **No. 2**— " " 1 " " " " " " 5¼ " | " | 16.00 |
| **No. 275**—Buhl's. " " 1 " " " " " " 5¼ " | " | 16.00 |
| **No. 20**—Plain tin. With hood. Silvered reflector. 1-inch wick. No. 0 globe. Weight, 48 lbs | " | 22.00 |

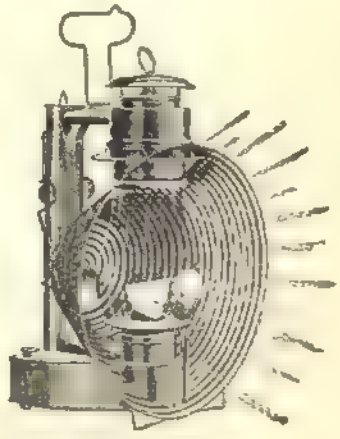
## TUBULAR DASH.

Nos. 15 and 60½.

## COLD BLAST DASH.

No. 17.

## SEARCHLIGHT.



No. 30.

| | | | |
|---|---|---|---|
| **No. 15**—Ham's. Blue japanned. Tin reflector. ¾ inch wick. No. 0 globe. Weight, 27 lbs | Per dozen, | $14.00 |
| **No. 60½**—Buhl's. " " " " ¾ " " " 0 " Match box attachment. Weight, 30 lbs | " | 14.00 |
| **No. 17**—Blue japanned. Tin reflector. 1-inch wick. Cold blast globe. Weight 33 lbs | " | 19.50 |
| **No. 20**— " " Hood " 1 " " No. 0 globe. Weight, 48 lbs | | 30.00 |

**Nos. 00 and 1, one dozen, balance, one-half dozen in case.**

# LANTERNS.

## CANDLE.

No. 12.

## RACKET.

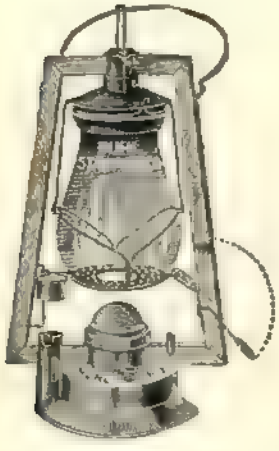
No. 64.

## PLAIN.

No. 74.

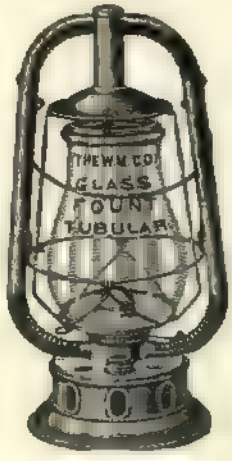
**No. 12**—Tin base. Wire handle and sides. Takes any No. B chimney. Weight, 2½ lbs .... Per dozen, $3.00
**No. 64**—Brass. ⅝-inch wick. Racket globe. Weight, 9 lbs .... " 7.50
**No. 74**—Tin. With guard. ⅝-inch wick. No. 0 globe. Has 3 burners for lard oil, coal oil and candle. Weight, 33 lbs.... " 7.75

## TUBULAR.



Nos. 16½ and 216½.

Nos. 0 and 02.




No. 5.

**No. 16½**—Plain tin. With match box attachment. ⅝-inch wick. No. 0 globe. Weight, 33 lbs .... Per dozen, $ 9 50
**No. 216½**— " " " " " " 1 " " " 0 " " 36 " " 15 50
**No. 0** — " " ⅝-inch wick. No. 0 globe. Weight, 34 lbs .... " 9 50
**No. 02** — " " 1 " " " 0 " " 37 " " 13 50
**No. 5** — " " Glass fount. ⅝-inch wick. No. 0 globe. Weight, 43½ lbs .... " 13 50
Extra glass founts for No. 5. Weight, 7 lbs.... " 3 00

No 12, twelve dozen; No. 64, six dozen, No 5, one-half dozen; balance, one dozen in case.

# LANTERNS.

## TUBULAR DASH.

No. 50.

## COLD BLAST DASH.

Nos. 18 and 118.

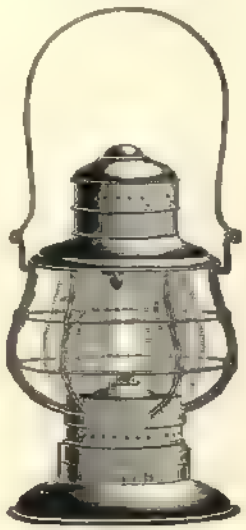
## CONDUCTORS'.

No. 336.

| | | |
|---|---|---|
| **No. 50**—Japanned. Polished reflector. Convex lense. ½-inch wick. Weight, 30 lbs..... Per dozen, | | $42.00 |
| **No. 18**— " Silvered " Double convex lense. ½-inch wick. Weight, 36 lbs.. " | | 42 00 |
| **No. 118**—Nickel-plated. " " " " " ½ " " " 36 " " | | 54 00 |
| **No. 336**—Brass. Nickel-plated. Tank screws in. Pullman globe. ½ " " " 25 " " | | 72 00 |
| Extra lense for No. 50 lantern. Weight, 6 lbs..... " | | 6.00 |

## RAILROAD.

No. 39½.



Nos. 139 to 339.

No. 39.

| | | |
|---|---|---|
| **No. 39½**—Wire guards and bottom. ½-inch wick. No. 39 globe. Weight, 29 lbs..... Per dozen, | | $15 00 |
| **No. 139** — " " tin " ½ " " " 39 " " 35 " " | | 12 00 |
| **No. 239** —Brass wire guards. Brass bottom. ½-inch wick. No. 39 globe. Weight, 35 lbs .. " | | 33 00 |
| **No. 339** — " " " " " all nickel-plated. ½-inch wick. No. 39 globe. Weight, 35 lbs .. | | 43 00 |
| **No. 39** —Heavy flat tinned steel guards and bottom. ½-inch wick. No. 39 globe. Weight, 27 lbs.. | | 18 00 |

All railroad lanterns sent with lard oil burners, unless otherwise ordered. For coal oil burners, add 50 cents to list.

Nos. 50, 18, 118, one-half dozen; balance, one dozen in case.

# LANTERNS.

## COLD BLAST.

No. 00.

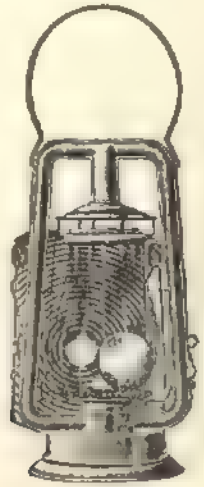
Nos. 1 to 275

## TUBULAR HOOD.

No. 20.

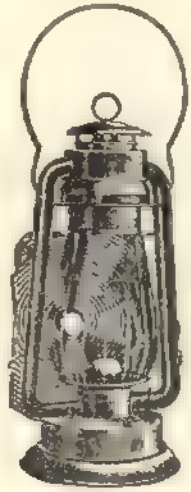
| | | |
|---|---|---|
| **No. 00**—All brass. ½-inch wick. No. 00 globe. Weight, 37 lbs. | Per dozen, | $18.00 |
| **No. 1**—Ham's. Plain tin, ⅝ inch wick. Cold blast globe. Weight, 45 lbs. | " | 13.50 |
| **No. 2**— " " 1 " " " " " " 54 " | " | 16.00 |
| **No. 275**—Buhl's. " " 1 " " " " " " 54 " | " | 16.00 |
| **No. 20**—Plain tin. With hood. Silvered reflector. 1-inch wick. No. 0 globe. Weight, 48 lbs. | " | 22 00 |

## TUBULAR DASH.



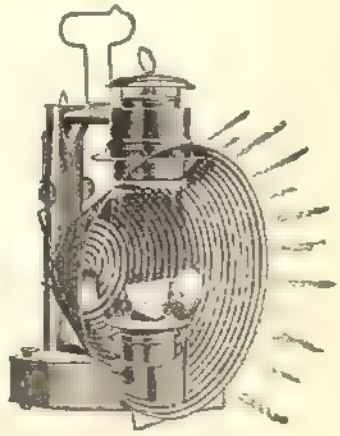
Nos. 15 and 60½.

## COLD BLAST DASH.



No. 17.

## SEARCHLIGHT.



No. 20

| | | |
|---|---|---|
| **No. 15**—Ham's. Blue japanned. Tin reflector. ⅝-inch wick. No. 0 globe. Weight, 27 lbs. | Per dozen, | $14.00 |
| **No. 60½**—Buhl's. " " " " ⅝ " " " 0 " Match box attachment. Weight, 30 lbs. | " | 14.00 |
| **No. 17**—Blue japanned. Tin reflector. 1-inch wick. Cold blast globe. Weight, 33 lbs. | " | 19.50 |
| **No. 20**— " " Hood " 1 " " No. 0 globe Weight, 48 lbs. | " | 30.00 |

Nos. 00 and 1, one dozen. balance. one-half dozen in case.

# LANTERNS.

## CANDLE.

No 12.

## RACKET.

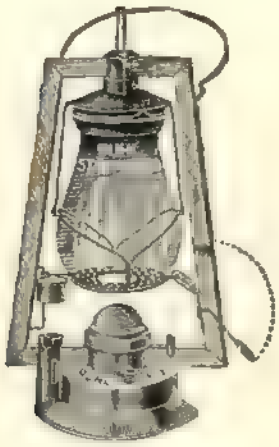
No. 64.

## PLAIN.

No. 74.

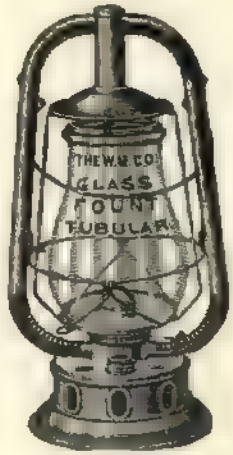
**No. 12**—Tin base. Wire handle and sides. Takes any No. B chimney. Weight, 2½ lbs ..... Per dozen, $3.00
**No. 64**—Brass. ⅝-inch wick. Racket globe. Weight, 9 lbs ..... " 7.50
**No. 74**—Tin. With guard. ⅝-inch wick. No. 0 globe. Has 3 burners for lard oil, coal oil and candle. Weight, 33 lbs..... " 7.75

## TUBULAR.



Nos. 16½ and 216½.

Nos. 0 and 02




No 5.

**No. 16½**—Plain tin. With match box attachment. ⅝-inch wick. No. 0 globe. Weight, 33 lbs ..... Per dozen, $ 9.50
**No. 216½**— " " " " " " 1 " " " 0 " 36 " " 15 50
**No. 0** — " " ⅝-inch wick. No. 0 globe. Weight, 34 lbs " 9 50
**No. 02** — " " 1 " " " 0 " " 37 " " 13 50
**No. 5** — " " Glass fount ⅝-inch wick. No. 0 globe. Weight, 43½ lbs " 13 50
Extra glass founts for No. 5. Weight, 7 lbs..... " 3 00

No 12, twelve dozen; No. 64, six dozen, No 5, one-half dozen; balance, one dozen in case.

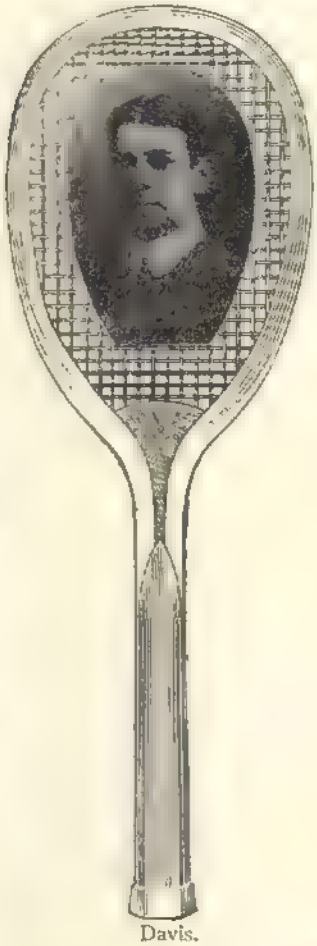
# LAWN TENNIS GOODS.

## RACKETS.

### THE DAVIS.

**No. 4**—Davis was designed by and made especially for Mr. Dwight F. Davis, the well-known tennis expert, but not placed upon the market until he had thoroughly tested it. Its qualities are maximum strength at points where other rackets are the weakest, fine balance and hard driving.

Each,. . . . . $10.00



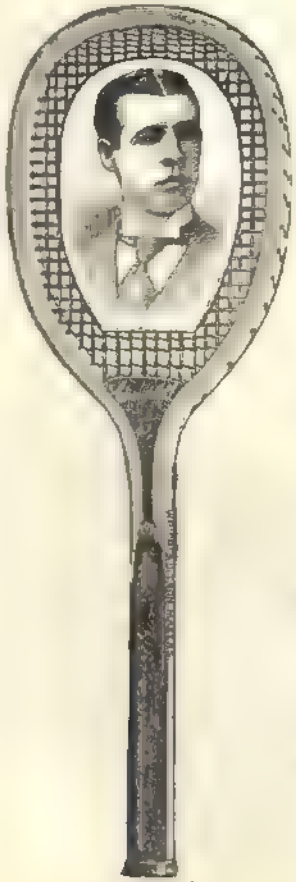
Davis.

Pim

### THE PIM.

**No. 6**—Pim has been used by nearly every leading player in the country during the past five years. The head is about one-half inch larger than the Sears or Campbell, giving it a greater playing surface and more driving power. Strung with standard size of best quality white English gut.

Each . . . . . $10 00



Campbell.

### THE CAMPBELL.

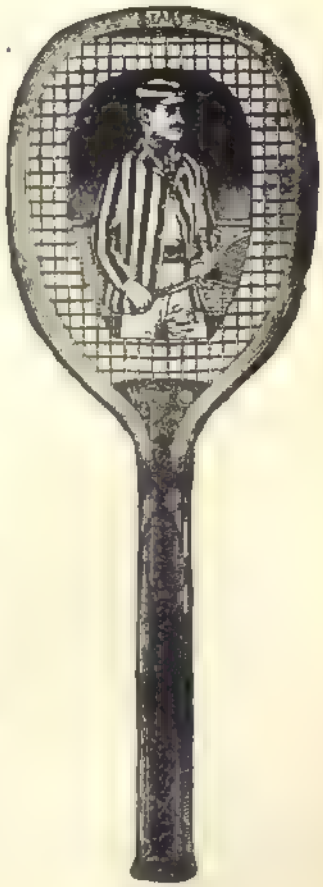
**No. 8**—Campbell is scientifically correct, modeled after plans furnished by Mr. O. S. Campbell, and is a duplicate in design of the one with which he won the championship of the United States, at Newport, R. I. This racket throughout is hand made. The frame is hand made of the finest selected ash, with reinforced throat, which prevents it from cracking. The stringing is of fine English white gut. . . . . Each, $9.00

### THE SEAR'S SPECIAL.

**No. 10**—Sear's Special was introduced in 1888 and has grown in popularity every year since. It is considered by experts to be one of the best rackets made. The frame is of the popular model and is strung with the best quality of selected red and white English gut. . . . . Each $8.50

### THE CHAMPION.

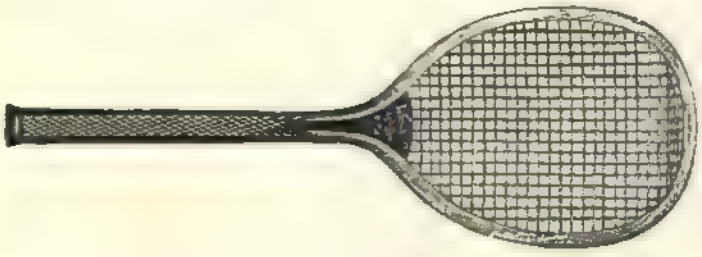
**No. 12**—Champion is made in accordance with a model furnished by a well-known player who held the championship of the United States. The frame is perfect in every detail, and is strung with an excellent quality of red and white English gut. It is one of the best rackets ever offered at a low figure, and can be depended upon to be both durable and satisfactory . . . . . Each, $7.00



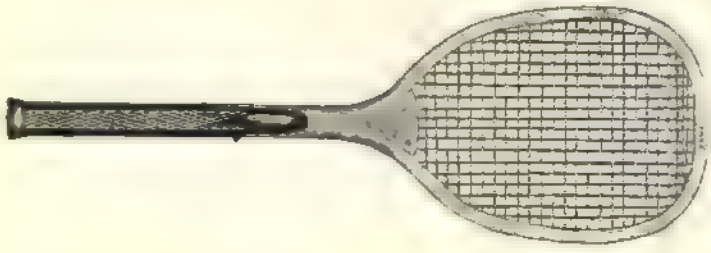
Sear's

# LAWN TENNIS GOODS.

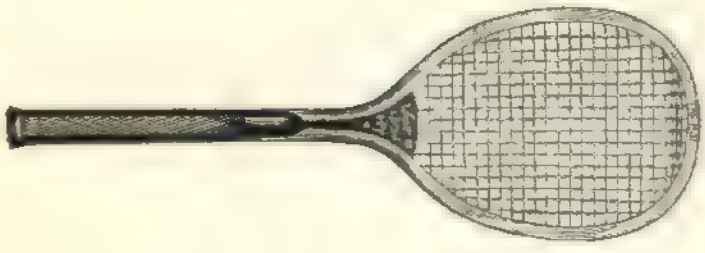
## RACKETS.



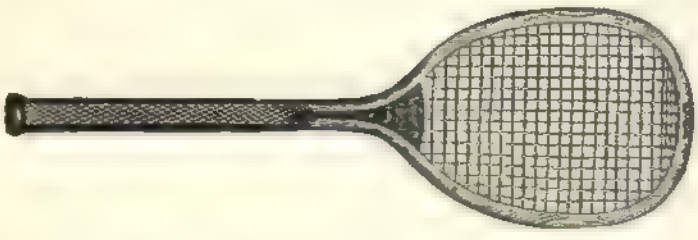
**No. 3**—Longwood. Frame of selected white ash, with walnut throat, checkered handle, strung with fine quality of Oriental gut .....Each, $5.50



**No. 5**—Park. Full size, well shaped, made of selected white ash, white holly throat, checkered handle, red and white gut.....Each, $4.00



**No. 7**—Hub. White ash frame, checkered handle, strung with best quality of Spanish gut .....Each, $2.75



**No. 9**—Surprise. Latest shape, well made and nicely finished, strung with good quality gut.....Each, $2 00

**No. 11**—Star (not shown) nicely strung up with red and white gut, checkered handle, designed for children's use..... .....Each, $1 50

## RACKET CASES.

**No. 0**—Fine felt, assorted colors.....Each, $0 75
**No. 8**—Brown, English canvas, leather trimmed 1 00

## GUARANTEE ON TENNIS RACKETS.

Tennis Rackets that are claimed defective must in all cases be sent to the factory (charges prepaid) before claims are allowed. The factory will make good by repairing or replacement any defect which in their judgment is not caused by misuse or neglect.

Tennis Rackets are extremely susceptible to dampness and should be kept in a cool, dry place, especially when taken to the seashore. Moisture will either cause the strings to break or the frame to warp.

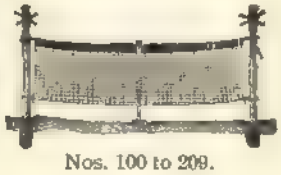
PACIFIC HARDWARE & STEEL COMPANY

# LAWN TENNIS GOODS.

## BALLS.

**No. 200**—Wright & Ditson's championship. . . . . Per dozen, $6.00

COURT NETS.



Nos. 100 to 209.

DRY MARKERS.

No 1-0

TAPES.

No. 2-0.

## COURT NETS.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **No. 100** | —Regulation. | Not bound. | 27 feet. | 12 thread. | Single court | Each, | $1 25 |
| **No. 106** | — " | " " | 30 " | 15 " | Double " | " | 2 25 |
| **No. 109** | — " | " " | 42 " | 15 " | " " | " | 3 00 |
| **No. 106 B** | — " | Bound. | 36 " | 15 " | " " | " | 3 00 |
| **No. 109 B** | — " | " | 42 " | 15 " | " " | " | 4 00 |
| **No. 157** | —Tarred and bound. | Hand made. | 36 feet. | 21 thread. | Double court | " | 5 00 |
| **No. 209** | —Taylor's patent double center. | | 42 " | 15 " | " " | " | 8 50 |

## BACK STOP NETS.

**No. 119**—50x7 feet. 9 thread . . . . . Each, $4 00
**No. 121**—50x8 " 12 " . . . . . " 5 00

## WRIGHT & DITSON'S DRY MARKERS.

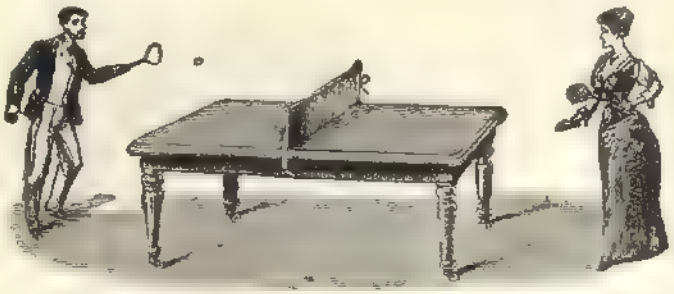
**No. 1-0**—This marker requires no mixing of material with water; use any powdered material, such as marble dust, air slacked lime, plaster of Paris, or ground plaster. . . . . Each, $2.50

## TAPES.

**No. 2-0**—Consists of strong pieces of webbing for marking out court correctly. Double court complete with 200 staples and 14 pins. . . . . Per set, $4.00

# TABLE TENNIS GOODS.

This Highly Interesting Game can be Played on an Ordinary Dining-Room Table and will Produce the Interest and Amusement that the Ever Popular Game of Lawn Tennis Distinguishes.

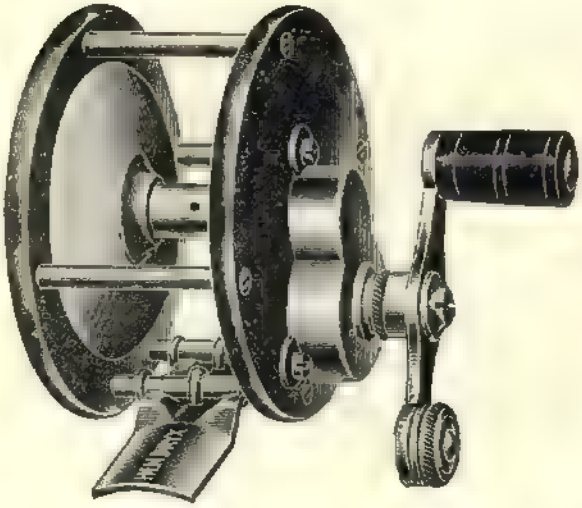


**No. 100**—Set complete, with net. 2 heavy twisted wire posts, with clamps. 2 wood battledores. 3 balls. In cardboard box. . . . . Per set, $ 3.50
**No. 101**—2 vellum battledores. Otherwise same as No. 100. . . . . " 4 00
**No. 102**—Set complete, with net. 2 heavy japanned twisted wire posts, with clamps. 2 vellum battledores. 6 balls. In leatherette case. . . . . " 5.00
**No. 103**—Set complete, with net. 2 heavy japanned twisted wire posts, with clamps. 2 vellum battledores. 6 balls. In leatherette case. . . . . " 7.00
**No. 104**—Set complete, with net. 2 nickel-plated posts, with clamps. 2 polished wood battledores. 12 balls. In cardboard box. . . . . " 8.50
**No. 105**—Set complete, with net. 2 polished wood posts, with gilded iron clamps. 2 genuine vellum battledores. 12 balls. In leatherette case. . . . . " 11.00
**No. 106**—Set complete, with net. 2 polished wood posts, with gilded iron clamps. 2 genuine vellum battledores. 12 balls. In brass hinged, polished wood box. . . . . " 18.00

## BALLS.

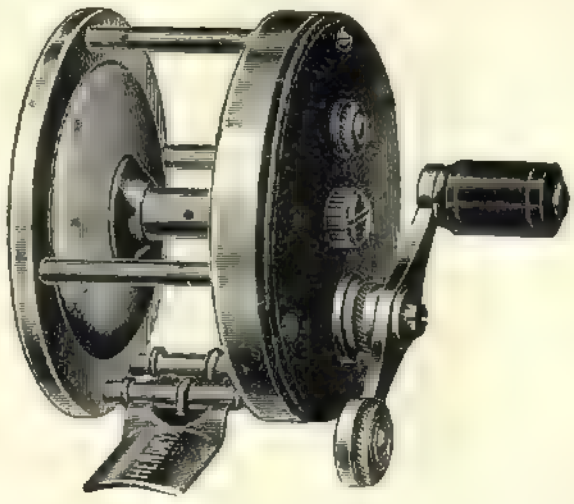
**No. 0**—Celluloid. . . . . Per hundred, $7.00

# FISHING REELS.



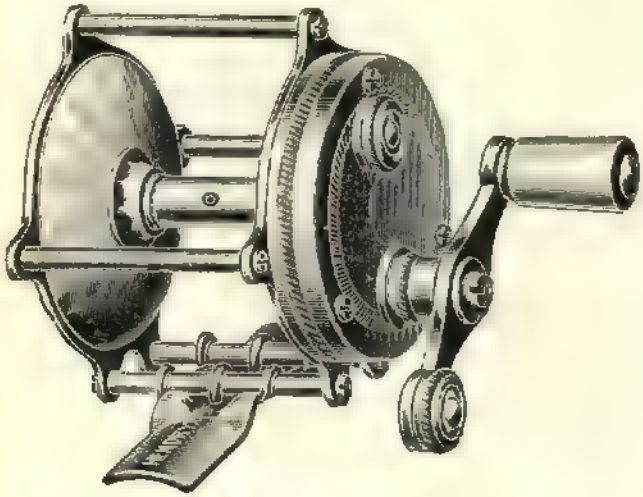
Rubber. Double Multiplying. Adjustable Slide Drag. Back Sliding Click. Balance Handle. Screwed

| | | | |
|---|---|---|---|
| **No. 24**— | 60 yards | Per dozen, | $24 00 |
| **No. 24**— | 80 " | " | 27 00 |
| **No. 24**—100 | " | | 30 00 |



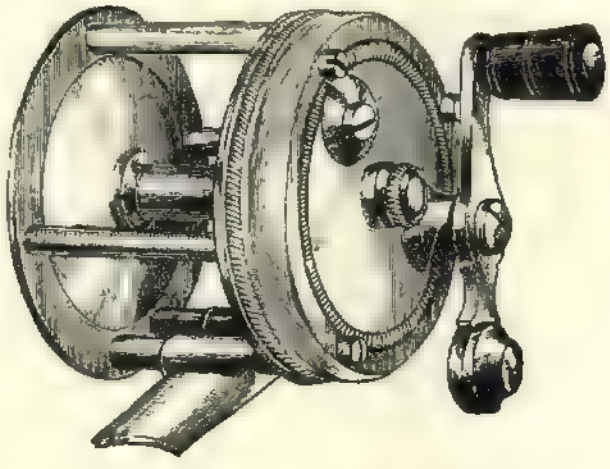
Thick Hard Rubber Plates. Double Multiplying. Finely Nickeled. Click and Drag. Balance Handle. Fine Bearings. Screw-off Oil Caps. Screwed.

| | | | |
|---|---|---|---|
| **No. 9**— | 40 yards | Per dozen, | $27.00 |
| **No. 9** | 60 " | " | 31 20 |
| **No. 9**— | 80 " | " | 36 00 |
| **No. 9**—100 | " | " | 48 00 |



Finely Nickel-Plated. Quadruple Multiplying. Raised Pillar. With Click and Drag. Extra Fine Quality. Steel Pivots. Balance Handle. A Perfect Reel.

| | | | |
|---|---|---|---|
| **No. 11**— | 80 yards | Per dozen, | $19.20 |
| **No. 11**— | 80 " | " | 21.60 |
| **No. 11**—100 | " | " | 24 00 |



Quadruple Multiplying. Extended Steel Pivots in Bushed Bearings. Nickel-Plated. German Silver Finished Sliding Click and Drag. Balance Handle.

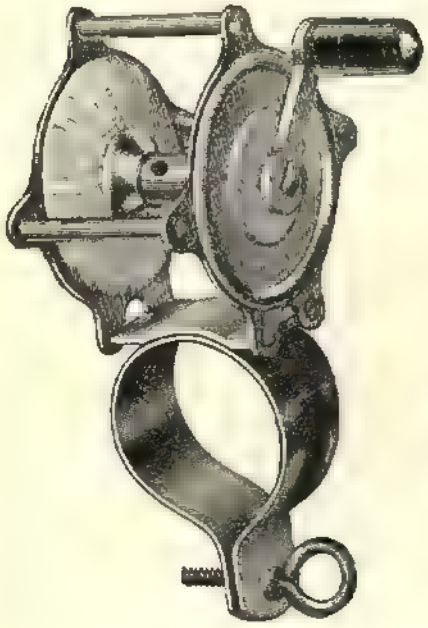
| | | | |
|---|---|---|---|
| **No. 11½**— | 40 yards | Per dozen, | $42.00 |
| **No. 11½**— | 60 " | " | 48 00 |
| **No. 11½**— | 80 " | " | 54 00 |
| **No. 11½**—100 | " | " | 60 00 |

One-half dozen in box.

PACIFIC HARDWARE & STEEL COMPANY

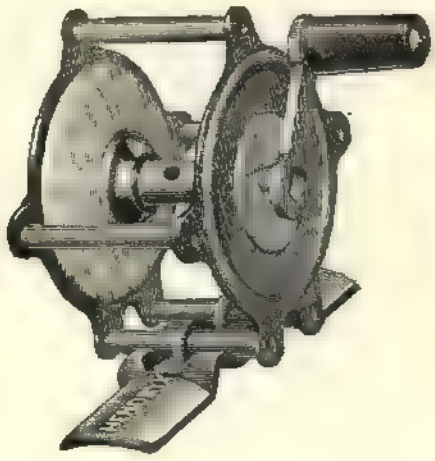
# FISHING REELS.

## SINGLE ACTION.



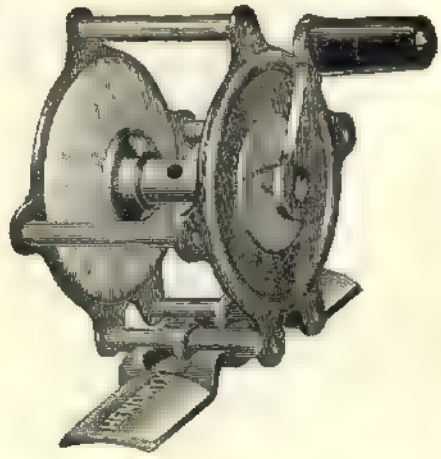
Polished Brass. Raised Pillar Ring Clamp. Adjustable to Any Rod.

| | | |
|---|---|---|
| **No. 0**—25 yards | Per dozen, | $3.00 |



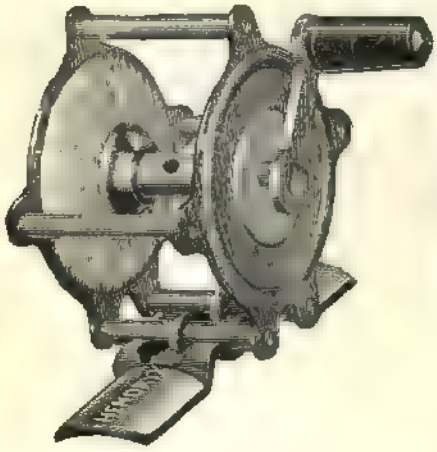
Polished Brass. Raised Pillar

| | | |
|---|---|---|
| **No. 1**— 25 yards | Per dozen, | $2.00 |
| **No. 1**— 40 " | " | 2 50 |
| **No. 1**— 60 " | " | 3 00 |
| **No. 1**— 80 " | " | 3 50 |
| **No. 1**—100 " | " | 4.00 |



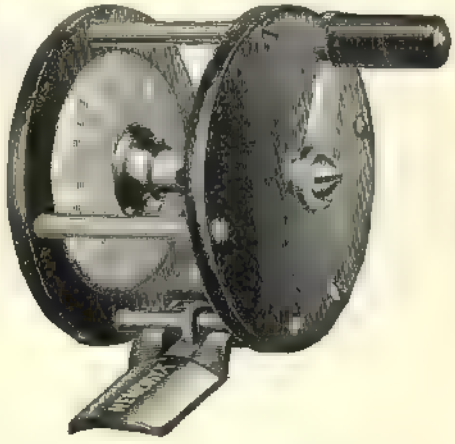
Polished Brass. Raised Pillar. With Click.

| | | |
|---|---|---|
| **No. 2**— 25 yards | Per dozen, | $2.50 |
| **No. 2**— 40 " | " | 3 00 |
| **No. 2**— 60 " | " | 3 50 |
| **No. 2**— 80 " | " | 4.00 |
| **No. 2**—100 " | " | 4 50 |



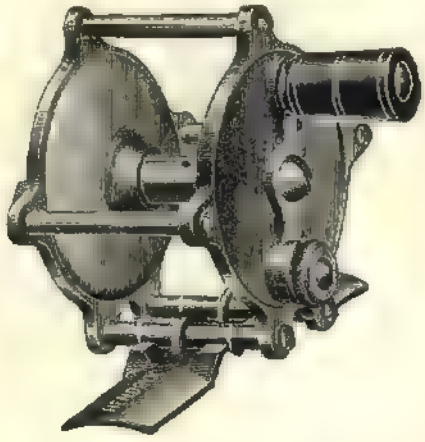
Nickel-Plated Raised Pillar With Click.

| | | |
|---|---|---|
| **No. 3**— 25 yards | Per dozen, | $3.50 |
| **No. 3**— 40 " | " | 4.00 |
| **No. 3**— 60 " | " | 4.50 |
| **No. 3**— 80 " | " | 5 00 |
| **No. 3**—100 " | " | 5 50 |



Hard Rubber Sides. Nickel Spool Screwed. With Click.

| | | |
|---|---|---|
| **No. 6**— 40 yards | Per dozen, | $12.00 |
| **No. 6**— 60 " | " | 13.20 |
| **No. 6**— 80 " | " | 14 40 |
| **No. 6**—100 " | " | 16.80 |

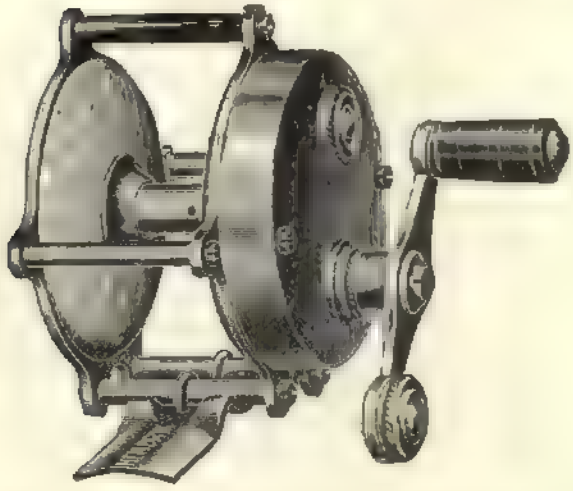


Nickel-Plated. Raised Pillar. Patent Oil Cap. With Click. Balance Handle

| | | |
|---|---|---|
| **No. 5**— 40 yards | Per dozen, | $ 8.50 |
| **No. 5**— 60 " | " | 9.00 |
| **No. 5**— 80 " | " | 10.00 |
| **No. 5**—100 " | " | 10.80 |

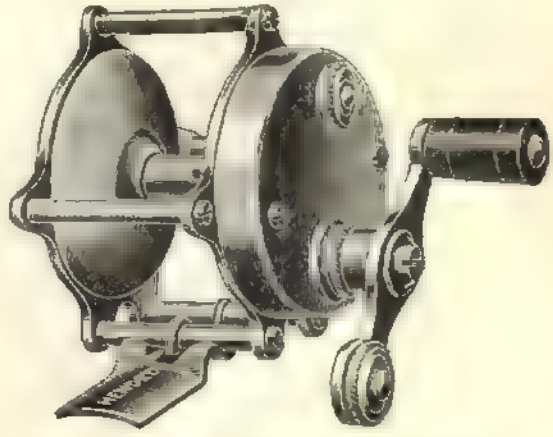
One-half dozen in box.

# FISHING REELS.



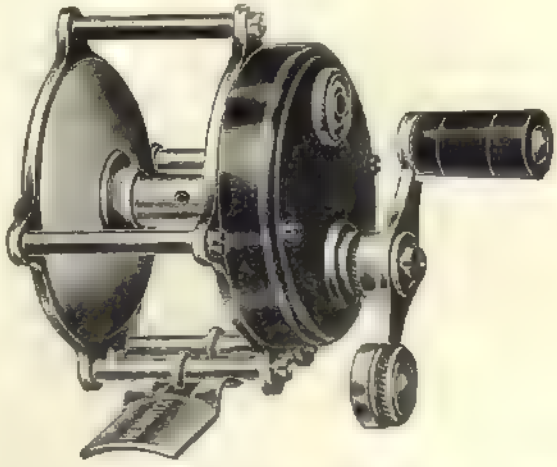
Polished Brass. Double Multiplying. Raised Pillar Sliding Click and Drag Balance Handle.

| | | | |
|---|---|---|---|
| **No. 14**— 40 yards | Per dozen, | $ 7.50 |
| **No. 14**— 60 " | " | 8.50 |
| **No. 14**— 80 " | " | 9.50 |
| **No. 14**—100 " | " | 11.50 |



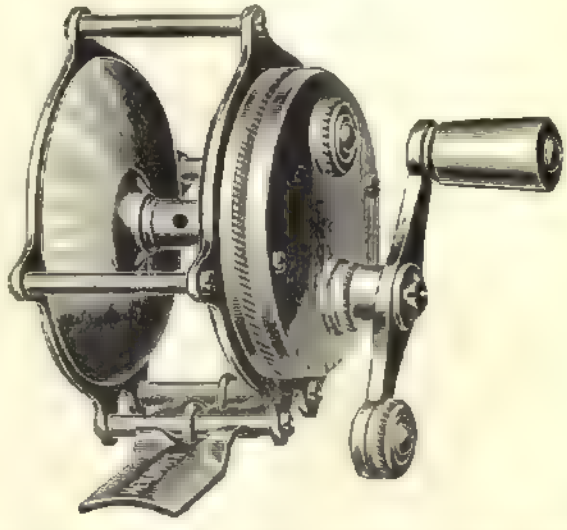
Nickel-plated Double Multiplying Raised Pillar Sliding Click and Drag Balance Handle Screwed

| | | |
|---|---|---|
| **No. 7**— 40 yards | Per dozen, | $ 8.00 |
| **No. 7**— 60 " | " | 9.00 |
| **No. 7**— 80 " | " | 10.00 |
| **No. 7**—100 " | " | 12.00 |
| **No. 7**—150 " | " | 15.00 |
| **No. 7**—200 Extra heavy | | 36.00 |
| **No. 7**—250 " " | | 42.00 |
| **No. 7**—300 " " | | 48.00 |



Hard Rubber Raised Cap Right Side. Nickel-plated Left Side Double Multiplying. Raised Pillar. Sliding Click and Drag. Balance Handle. Screwed.

| | | | |
|---|---|---|---|
| **No. 8**— 40 yards | Per dozen, | $12.00 |
| **No. 8**— 60 " | " | 13.20 |
| **No. 8**— 80 " | " | 15.60 |
| **No. 8**—100 " | " | 18.00 |
| **No. 8**—150 " | " | 19.20 |



Fine Nickel-Plated Double Multiplying Raised Pillar With Sliding Click and Drag Balance Handle. Screwed

| | | |
|---|---|---|
| **No. 10**— 40 yards | Per dozen, | $12.00 |
| **No. 10**— 60 " | " | 13.20 |
| **No. 10**— 80 " | " | 15.60 |
| **No. 10**—100 " | " | 18.00 |
| **No. 10**—150 " | " | 19.20 |

One-half dozen in box

# SIGHTS, LEVEL GLASSES AND LEVELS.

## LEVEL SIGHTS.

By the use of these ingenious devices, which can be attached to any level, the owner has a convenient and accurate means for leveling from one given point to another at a long distance away. When not in use the level sights are easily detached and can be packed away in a small space for future use.

**No. 1**—Improved level sights for wood levels. Weight, ¼ lb. ..... Per pair, $0 75

One pair in box.

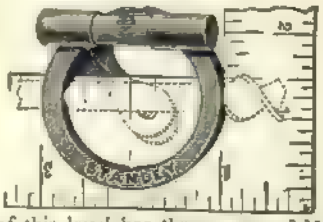
## PROVED LEVEL GLASSES.

Made of extra thick tubing by a patented process. Each level glass is marked at its highest, or crowning point, by two indelible lines.

| Inch | 1¼ | 1½ | 2 | 2½ | 3 | 3½ | 4 |
|---|---|---|---|---|---|---|---|
| Per gross | $9 00 | 8.50 | 10.00 | 10.50 | 11 50 | 13 00 | 14 50 |

Average weight, 6 lbs. One dozen in box.

## BIT AND SQUARE LEVEL.




The frame of this level has three pairs of V slots on its back edges. The shank to a bit will lie in these slots, either parallel with the bubble-glass, at an exact angle to it, or at an angle of 45 degrees. A thumbscrew secures the level to the bit in either position, and boring can be done with perfect accuracy as to perpendicular, horizontal or angle of 45 degrees, by observing the bubble-glass while turning the bit. The frame can also be attached to a carpenter's square. Two shoulders rest on the top of the horizontal leg to the square, thus making it an accurate spirit level. The upright leg of the square will indicate an exact plumb line.

**No. 44**—Brass frame. Weight, ½ lb. ..... Each, $0.30

One in box.

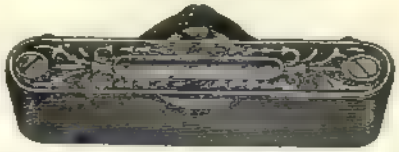
## HEXAGON POCKET LEVEL.

Nickel-plated. Proved Glass.

**No. 31**—Length, 3 inches. Weight, 1 lb. ..... Per dozen, $4 25
**No. 31**— " 4½ " " 1½ lbs. ..... " 6.50

One-half dozen in box.

## POCKET LEVELS.



**No. 40**—Japanned iron. Iron top plate. 3¼ inches. Per dozen, $1.25
**No. 41**— " " Brass " " 3¼ " " " 1.50

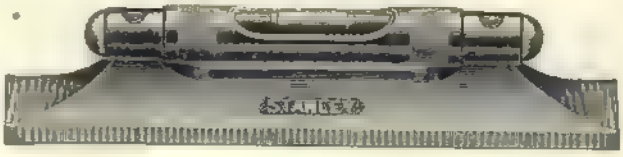
Weight, 2 lbs. One dozen in box.

## MACHINISTS' IRON LEVEL.

**No. 89½**—Nickel-plated. With proved glass. Length, 6 inches. Weight, 7 lbs. ..... Per dozen, $5.50

One-half dozen in box.

## ECLIPSE LEVEL.



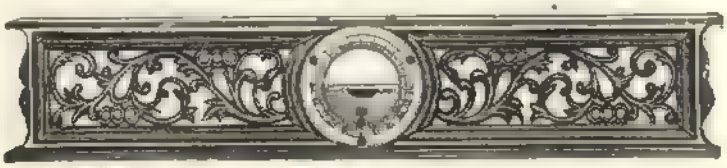

The outer shell of the level can be turned so as to completely protect the glass from damage when not in use. A convenient tool for machinists, electricians and expert mechanics or amateurs.

**No. 84**—Nickel-plated. With ground glasses. Length, 6 inches. Weight, ¼ lb. ..... Each, $1.25

One in box.

# MACHINISTS' IRON LEVELS.

## DAVIS' PATENT.



| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Length, inch | 6 | 12 | 18 | 24 |
| Weight, lbs. | 15 | 24 | 48 | 60 |
| Per dozen | $24.00 | 30 00 | 36.00 | 42 00 |

One-twelfth dozen in box

# METALLIC PLUMBS AND LEVELS.

Japanned. Nickel-Plated Trimmings With Proved Glasses Two Plumbs.

| Nos. | 36 A | 36 B | 36 C |
|---|---|---|---|
| Length, inch | 12 | 18 | 24 |
| Weight, lbs. | 24 | 36 | 54 |
| Per dozen | $18 00 | 21 00 | 24 00 |

Nickel-Plated. With Ground Glasses Two Plumbs

| Nos. | 37 A | 37 B | 37 C |
|---|---|---|---|
| Length, inch | 12 | 18 | 24 |
| Weight, lbs. | 28 | 44 | 55 |
| Per dozen | $36 00 | 42 00 | 48 00 |

One-twelfth dozen in box.

# PLUMBS AND LEVELS.

No. 102.

No. 104.

**No. 102**—Level. Arch top plate. Two side views. Polished. Assorted, 10 to 16 inches. Average weight, 23 lbs.....Per dozen, $4 50
**No. 104**—Plumb and level. Arch top plate. Two side views. Polished. Assorted, 12 to 18 inches. Average weight, 36 lbs.. " 7.00

No. 0.

Nos. 1 and 01.

**No. 0**—Plumb and level. Arch top plate. Two side views. Polished. Assorted, 24 to 30 inches. Average weight, 40 lbs....Per dozen, $ 9 00
**No. 1**—Patent adjustable mahogany plumb and level. Arch top plate. Two side views. Polished. Assorted, 24 to 30 inches. Average weight, 40 lbs..... " 13 50
**No. 01**—Same as No. 1. Not adjustable..... " 11.25

Nos. 3 and 03.

Nos. 5 and 05.

**No. 3**—Patent adjustable plumb and level. Arch top plate. Two side views. Polished and tipped. Assorted, 24 to 30 inches. Average weight, 47 lbs.....Per dozen, $15 00
**No. 03**—Same as No. 3. Not adjustable..... 14 00
**No. 5**—Patent adjustable plumb and level. Triple stock. Arch top plate. Two ornamental brass-lipped side views. Polished and tipped. Assorted, 24 to 30 inches. Average weight, 47 lbs..... " 24 00
**No. 05**—Same as No. 5. Not adjustable..... " 24 00

Nos. 102 and 104, one dozen; balance, one-half dozen in box
☞ In ordering, state the length of level wanted.

# PLUMBS AND LEVELS.

Nos. 9 to 011.

**No. 9**—Patent adjustable plumb and level. Mahogany. Arch top plate. Two ornamental brass-lipped side views. Polished and tipped. Assorted, 24 to 30 inches. Average weight, 44 lbs..... Per dozen, $24.00

**No. 09**—Same as No. 9. Not adjustable..... " 24 00

**No. 11**—Patent adjustable plumb and level. Rosewood. Arch top plate. Two ornamental brass-lipped side views. Polished and tipped. Assorted, 24 to 30 inches. Average weight, 60 lbs..... " 45 00

**No. 011**—Same as No. 11. Not adjustable..... " 44 00

Nos. 18 and 19.

Nos. 25 and 30.

**No. 18**—Selected cherry plumb and level. Square top plate. Polished side views, tipped. With proved glasses. Assorted, 24 to 30 inches. Average weight, 54 lbs..... Per dozen, $21 00

**No. 19**—Selected rosewood plumb and level. Square top plate. Two brass-lipped side views, tipped. With proved glasses. Assorted, 24 to 30 inches. Average weight, 54 lbs..... " 42.00

**No. 25**—Patent adjustable plumb and level. Mahogany. Arch top plate. Improved duplex side views. Polished. Tipped. Assorted, 24 to 30 inches. Average weight, 49 lbs..... " 24 00

**No. 30**—Patent adjustable plumb and level. Cherry. Arch top plate. Improved duplex side views. Polished. Tipped. Assorted, 24 to 30 inches. Average weight, 49 lbs..... " 18 00

No. 90.

Nos. 95 to 98.

**No. 90**—Mahogany plumb and level. Square top plate. Two brass-lipped side views. Tipped. With ground glasses. Assorted, 24 to 30 inches. Weight, 42 lbs..... Per dozen, $29 00

**No. 95**—Brass bound. Mahogany plumb and level. Two brass-lipped side views. With ground glasses. Assorted, 24 to 30 inches. Average weight, 50 lbs..... " 72.00

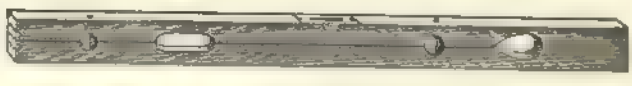
**No. 96**—Brass bound. Rosewood plumb and level. Two brass-lipped side views. With ground glasses. Assorted, 24 to 30 inches. Average weight, 96 lbs..... " 80 00

**No. 98**—Brass bound. Rosewood plumb and level. Two brass-lipped side views. With ground glasses. 12 inches. Weight, 22 lbs..... " 38 00

☞ In ordering, state the length of the level wanted.

# MASON'S PLUMB AND LEVEL AND PLUMB RULE.

No. 85.



Nos. 60 and 70.

**No. 85**—Adjustable Mason's plumb and level. Length, 42 inches. Adapted also for plumb bob and line. Weight, 50 lbs. Per dozen, $24 00

**No. 60**—Etting's. Oil finish. 54 inches long. 4 inches wide. 2 plumb and 1 level glass. Weight, 40 lbs..... " 36 00

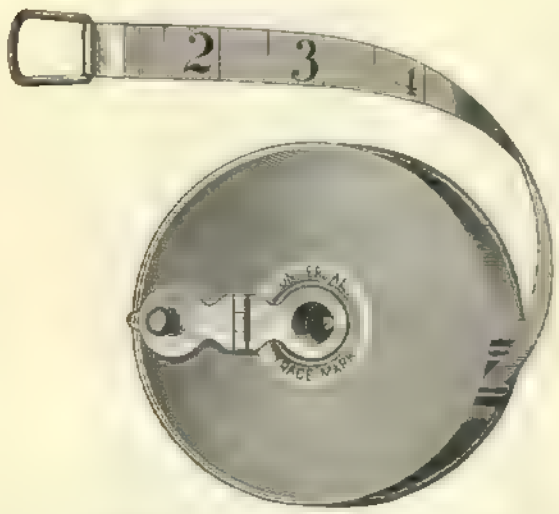
**No. 70**— " Cherry " 54 " " 4 " " 2 " " 1 " " " 40 "..... " 39.00

One-half dozen in box.

PACIFIC HARDWARE & STEEL COMPANY

# Measuring Tapes.

## Asses' Skin.

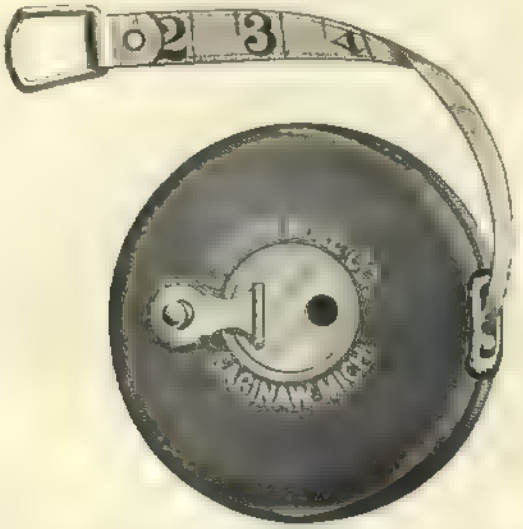


Brass Bound Case, ½ in. Cotton Tape.

| Nos | 30 | 33 | 35 | 37 |
|---|---|---|---|---|
| Length, feet | 25 | 50 | 75 | 100 |
| Weight per Dozen, lbs | 2½ | 4½ | 6 | 7 |
| Per Dozen | $3 75 | 5 00 | 7 50 | 9 00 |

Half Dozen in a Box.

## Sterling, Linen.

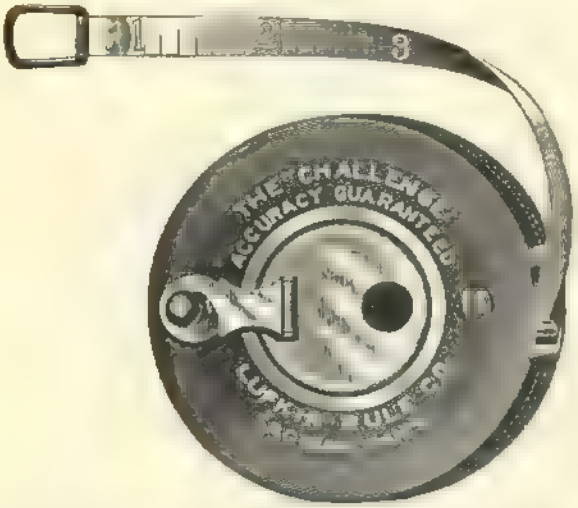


With 9-16 inch pure linen tape, reinforced with leather the first four inches and heavily coated. Nickel plated trimmings, flush handle, hard leather case. Marked one side only in twelfths.

| Nos | 403 | 405 | 406 |
|---|---|---|---|
| Length, feet | 50 | 75 | 100 |
| Weight per Dozen, lbs | 6 | 9 | 10 |
| Per Dozen | $20 00 | 25 00 | 30 00 |

Half Dozen in a Box.

## Challenge, Steel.



Hard leather case, Nickel plated trimmings, flush handle. ⅝ inch tape marked one side only, in twelfths and eighths.

| Nos | 260 | 263 | 265 | 266 |
|---|---|---|---|---|
| Length, feet | 25 | 50 | 75 | 100 |
| Diameter of Case, inch | 2¾ | 3¼ | 4¼ | 4½ |
| Weight per Dozen, lbs | 5 | 8¼ | 10½ | 15½ |
| Per Dozen | $39 00 | 48 00 | 63 00 | 81 00 |

Half Dozen in a Box.

## Chesterman's.

No. 34L.—Metallic, Marked in 10ths or 12ths.

| Feet | 25 | 50 | 75 | 100 |
|---|---|---|---|---|
| Each | $1 80 | 2 60 | 3 30 | 4 20 |

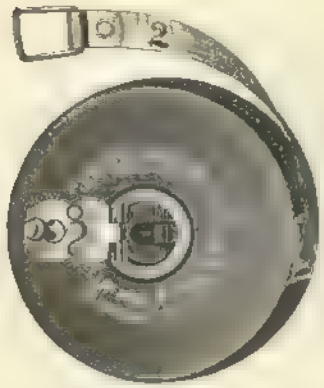
No. 38L.—Steel, Marked in 10ths or 12ths.

| Feet | 25 | 50 | 75 | 100 |
|---|---|---|---|---|
| Each | $4 50 | 7 20 | 10 40 | 12 80 |

Half Dozen in a Box.

# Measuring Tapes.

## Junior Metallic.

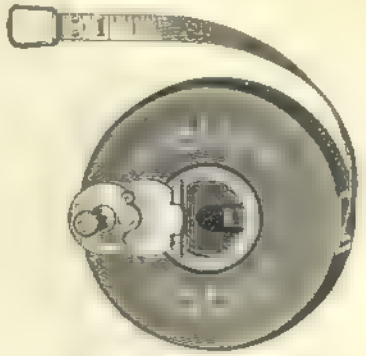


A first-class, high-grade, genuine Metallic Warp Tape less than one-half the size and weight of a regular Metallic Tape.

**⅜-inch Tape, Marked Feet, Inches and Eighths.**

| Nos | 660 | 663 |
|---|---|---|
| Length, feet | 25 | 50 |
| Diameter of Case, inch | 2¾ | 3½ |
| Weight per Dozen, lbs | 3¾ | 5 |
| Per Dozen | $21 60 | 27 00 |

## Reliable Junior, Steel.



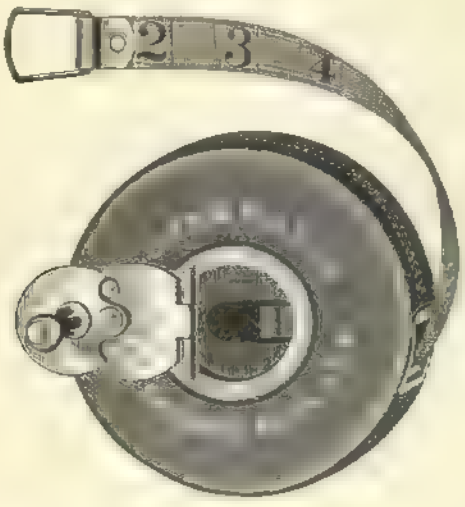
A Convenient Vest Pocket Steel Tape
Nickel-plated Trimmings, Hard Leather Case.

**¼-inch Tape, Marked Feet, Inches and Eighths.**

| Nos. | 100 | 103 |
|---|---|---|
| Length, feet. | 25 | 50 |
| Diameter of Case, inch | 2½ | 2¾ |
| Weight per Dozen, lbs | 4½ | 6 |
| Per Dozen | $45 00 | 55 00 |

**No. 103D**—50 ft. Marked 10ths and 100ths, for Surveyors.....Per Dozen, $55 00

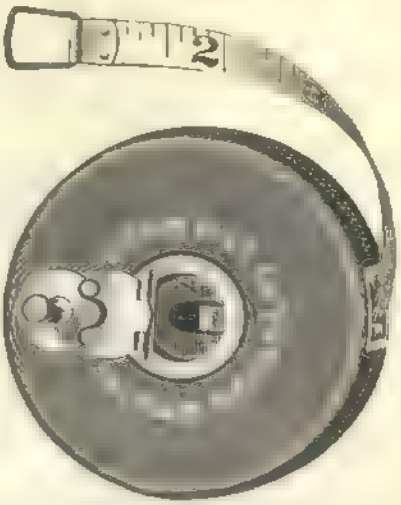
## Metallic.



**⅝ in. Tape, Marked Feet and Inches.**

| Nos | 600 | 603 | 605 | 606 |
|---|---|---|---|---|
| Length, feet | 25 | 50 | 75 | 100 |
| Diameter of Case, in. | 2¾ | 3¼ | 4¼ | 4½ |
| Weight per Dozen, lbs. | 7½ | 12 | 15 | 19½ |
| Per Dozen | $24 00 | 33 60 | 40 80 | 50 40 |

## Reliable, Steel.



**⅜ in. Steel Tape, Marked Feet, Inches and Eighths.**

| Nos | 203 | 205 | 206 |
|---|---|---|---|
| Length, feet | 50 | 75 | 100 |
| Diameter of Case, inch | 3¼ | 4¼ | 4½ |
| Weight Each, lbs | ⅞ | 1 | 1⅜ |
| Each | $7 20 | 10 40 | 12 80 |

**⅜ in. Tape, Marked Feet, 10ths and 100ths, for Surveyors.**

| Nos | 203 D | 205 D | 206 D |
|---|---|---|---|
| Length, feet | 50 | 75 | 100 |
| Diameter of Case, inch | 3¼ | 4¼ | 4½ |
| Weight Each, lbs | ⅞ | 1 | 1⅜ |
| Each | $7 20 | 10 40 | 12 80 |

Above Tapes Marked on Back with Links and Poles.
With Double Folding Flush Handles, Opened by Pressing Small Pin or Button on Opposite Side. Hard Leather Cases, Nickel Plated Trimmings.

# Measuring Tapes.

## Pocket, Linen.

Marked one side in inches and eighths. Nickel plated Brass Case, Spring Wind, with Center Stop, ¼ in Enameled Linen Tape

| Nos. | 173 | 175 | 176 |
|---|---|---|---|
| Length, feet | 3 | 5 | 6 |
| Weight per Dozen, lbs | 1 | 1½ | 2 |
| Per Dozen | $3 50 | 4 50 | 5 00 |

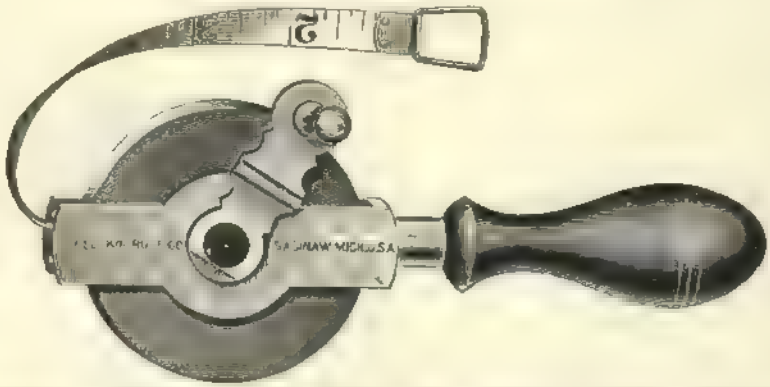
## Pocket, Steel.

Marked one side in inches and sixteenths. Nickel plated Brass Case, Spring Wind, with Stop, Steel Tape ¼ in wide.

| Nos. | 143 | 146 |
|---|---|---|
| Length, feet | 3 | 6 |
| Weight per Dozen, lbs | 1½ | 2½ |
| Per Dozen | $7 00 | 10 00 |

Half Dozen in a Box.

## Germania Frame Steel Tapes.



Folding Winding Handle, Frames and Trimmings of Brass, Nickel Plated, Rosewood Handles, Tapes marked one side only in 10ths or 12ths.

### With ⅜ in. Steel Tapes.

| | Feet, Twelfths, Inches and Eighths. | | Feet, 10ths and 100ths of Feet. | |
|---|---|---|---|---|
| No. 283 | Length, 50 feet . . . Each, | $4 50 | No. 283D | Length, 50 feet . . . . . Each, $4 50 |
| No. 285 | " 75 " . . . . . " | 6 25 | No. 285D | " 75 " . . . . . " 6 25 |
| No. 286 | " 100 " . . . . . " | 7 75 | No. 286D | " 100 " . . . . . " 7 75 |

### With ½ in. Steel Tapes.

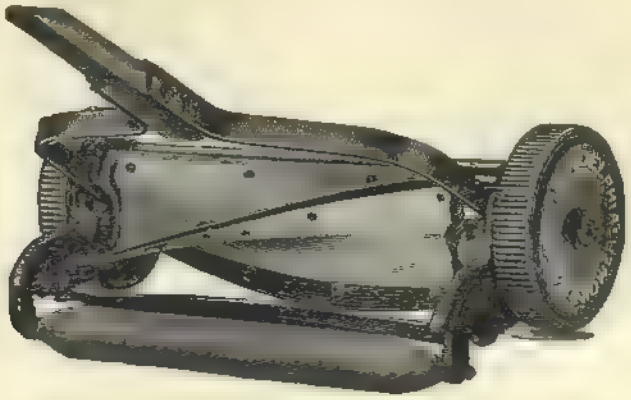
| | Feet, Twelfths, Inches and Eighths. | | Feet, 10ths and 100ths of Feet. | |
|---|---|---|---|---|
| No. 293 | Length, 50 feet . . . Each, | $5 25 | No. 293D | Length, 50 feet . . . . . Each, $5 25 |
| No. 295 | " 75 " . . . . . " | 7 50 | No. 295D | " 75 " . . . . . " 7 50 |
| No. 296 | " 100 " . . . . . " | 9 00 | No. 296D | " 100 " . . . . . " 9 00 |

One in a Box.

# Lawn Mowers.

## Philadelphia.

Styles D and M.



Diameter of Wheels, 7 inch. Three Blades, Solid Cylinder, Blades Bolted On.

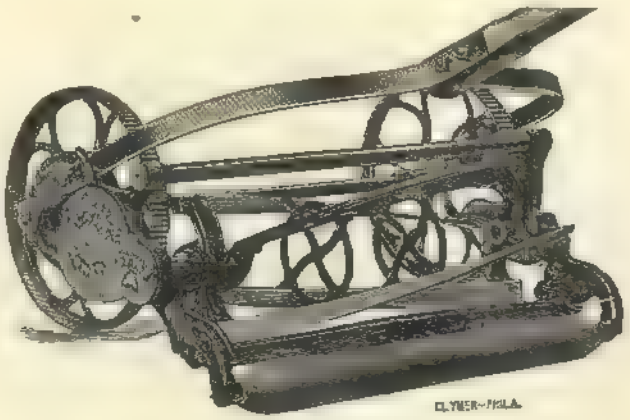
Style D.

| **Width of Cut,** inch... | **10** | **12** |
|---|---|---|
| Weight Each, lbs..... | 26 | 28 |
| Each..... | $13 00 | 15 00 |

Style M.

| **Width of Cut,** inch... | **14** | **16** |
|---|---|---|
| Weight Each, lbs..... | 36 | 38 |
| Each..... | $17 00 | 19 00 |

Style A.



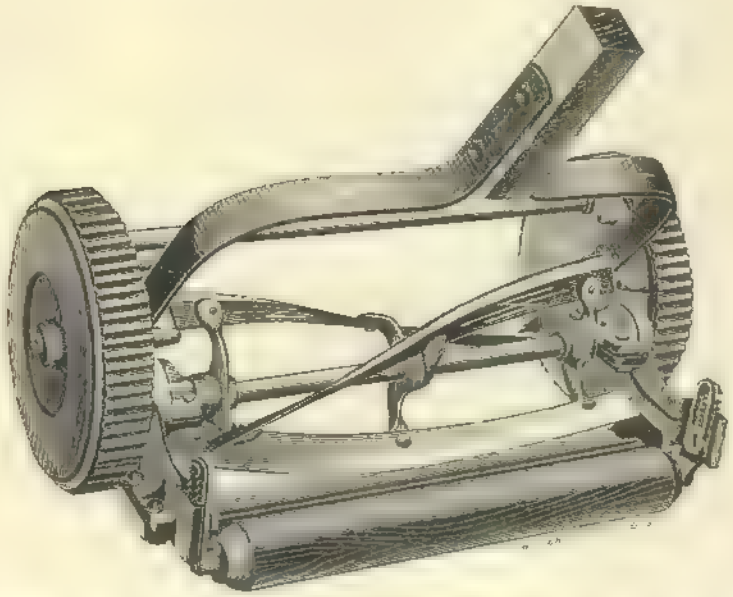
Diameter of Wheels, 10 inch. Four Blades, Open Cylinder, Three Gears, Constructed of Steel Throughout.

Style A.

| **Width of Cut,** inch..... | **15** | **17** | **19** | **21** |
|---|---|---|---|---|
| Weight Each, lbs ..... | 40 | 42 | 44 | 46 |
| Each ..... | $25 00 | 28 00 | 31 00 | 34 00 |

One in a Case.

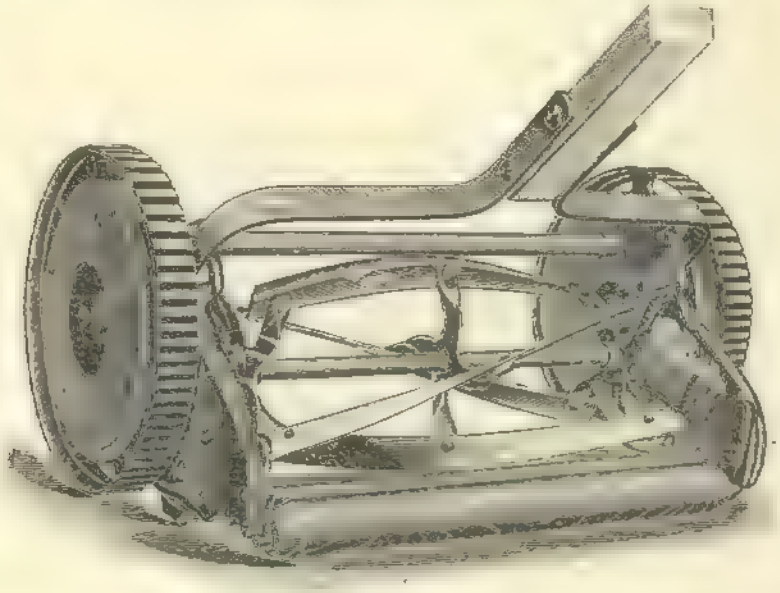
# Gem Lawn Mower.



Diameter of Wheels 7 inch. Three Blades, Open Cylinder, Red, Decorated Green and Gold.

| **Width of Cut,** inch. | **10** | **12** | **14** | **16** |
|---|---|---|---|---|
| Weight Each, lbs. | 32 | 34 | 36 | 38 |
| Each | $6 00 | 7 00 | 8 00 | 9 00 |

# F. & N. High Grass Mower.

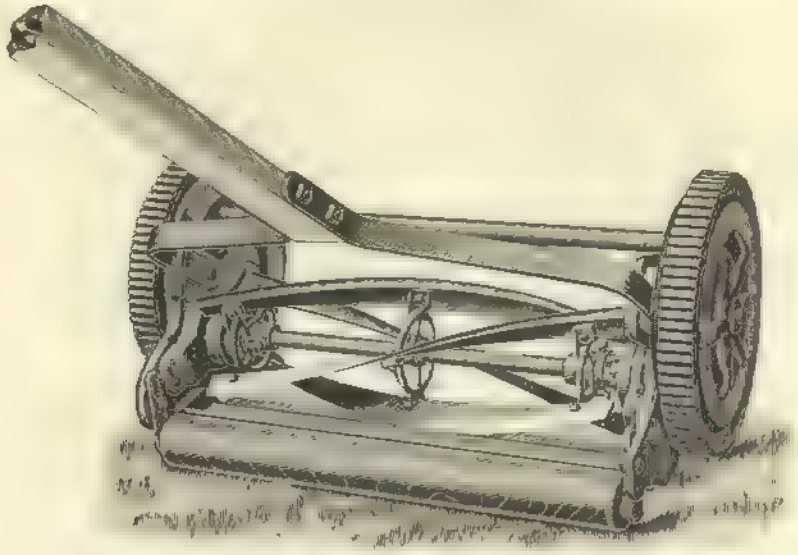


Diameter of Wheels 10½ inch. Four Blades, Open Cylinder, White Enamel, Decorated Blue and Gold.

| **Width of Cut,** inch. | **14** | **16** | **18** |
|---|---|---|---|
| Weight Each, lbs. | 45 | 47 | 50 |
| Each | $10 00 | 11 00 | 12 00 |

One in a Case.

# F. & N. Ball-Bearing Lawn Mower.



Diameter of Wheels 10½ inch. Blades Are Crucible Steel, Tempered in Oil. Finished in Solid Aluminum.

Combines Strength with Lightness, and is Noiseless in Operation. Absolutely Guaranteed.

| **Width of Cut,** inch..... | **12** | **14** | **16** | **18** |
|---|---|---|---|---|
| Weight Each, lbs. ..... | 51 | 53 | 55 | 57 |
| Each . . . . . | $11 00 | 13 00 | 15 00 | 17 00 |

One in a Case.

# Grass Catchers.

## Adjustable.

**No. 7—Low Wheel, Canvas Body.**

**No. 7**—Will Fit 10, 12, 14 and 16 in. Low Wheel Lawn Mowers, Weight per Dozen, 33 lbs Per Dozen, $12 00
**No. 13** " " 12, 14, 16 " 18 " High " " " " " " 40 " ..... " " 18 00

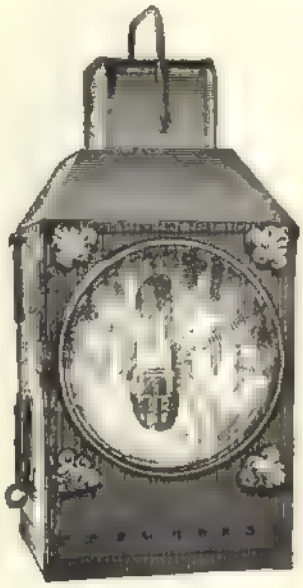
# HEADLIGHTS.

## WAGON.

Nos. 6 and 8.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **No. 6**— | 6-inch lense | | ⅜-inch round wick | | Weight, | 6½ lbs... | Each, | $12 00 |
| **No. 8**— | 8 | " " | 1 | " " " | " | 7¼ " ..... | " | 15.00 |
| **No. 12**— | 12 | " " | 1 | " " " | " | 17 " ..... | " | 20.00 |
| **No. 14**— | 14½ | " " | 1 | " " " | " | 28½ " ..... | " | 30.00 |
| **No. 17**— | 17 | " " | 1⅛ | " " " | " | 36 " ..... | " | 40.00 |
| **No. 20**— | 20½ | " " | 1⅜ | " " " | " | 50 " ..... | " | 50.00 |
| **No. 24**— | 24 | " " | 1¾ | " " " | " | 88 " ..... | " | 65.00 |

## CABLE DUMMY.



No. 12.

## LOCOMOTIVE AND MINING.

Nos. 14 to 24.

# LAMP BURNERS.

Nos. 1 or A and 2 or B.

**No. 1** or **A**— ⅝-inch wick. Weight, 1 lb.. .. ..... Per dozen, $1.25
**No. 2** or **B**— 1 -inch wick Weight, 1½ lbs... .. .. .. .. " 1 50
**No. 20** or **D**— 1½-inch wick Fits B and D collar Weight, 2½ lbs. . . 3 00

One dozen in box

No. 20 or D.

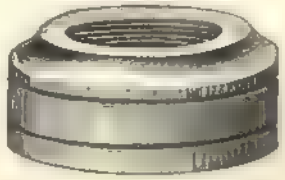
# FEEDER CAPS AND COLLARS.

No. 189.

**No. 189** —Regular cap with plain collar. Weight, ¼ lb. . ....Per dozen, $0 50
**No. 1** or **A**—Collar. Weight, ¼ lb... ..... . ... . . . 75
**No. 2** or **B**— " " ¼ " .. .. . .. . 1 00

No. 189, one gross in box; balance, one dozen in package

# COLLARS.



Nos. 1 or A and 2 or B.

# REFLECTOR LAMPS.

## BACK REFLECTOR.

Nos. 1 to 8

**No. 1**—Size glass, 6x10 inches. ⅝-inch wick. Weight, 3½ lbs..... Each, $2 00

**No. 2**—Size glass, 8x12 inches. 1-inch wick. Weight, 5 lbs..... " 2 75

**No. 7**—Size glass, 10x14 inches. 1½-inch wick. Weight 8½ lbs..... " 3.50

**No. 8**—Size glass, 12x16 inches. 1½-inch wick. Weight, 12½ lbs..... " 4.75

**No. 9**—Size glass, 10x12 inches. 1-inch wick. Weight, 5 lbs..... " 2 75

**No. 10**—Size glass, 12x16 inches. 1½-inch wick. Weight, 8½ lbs..... " 4.00

Nos. 9 and 10.

## BACK REFLECTOR.

No. 111

**No. 111**—Size glass, 6x8x12 inches. ⅝-inch wick. Weight 6 lbs..... Each $ 3.75

**No. 5**—Size glass, 12x12 inches. 1½-inch wick. Weight 8 lbs..... " 6.00

**No. 6**—Size glass, 16x16 inches. 1½-inch wick. Weight, 13½ lbs..... " 11.25

Nos. 5 and 6.

## CENTRAL REFLECTOR.

Nos. 3 and 3½

**No. 3**—Size glass, 9x14 inches. 1-inch wick. Weight, 6½ lbs..... Each, $5 00

**No. 3½**—Size glass, 10½x10½ inches. 1½-inch wick. Weight, 8½ lbs..... " 6.00

**No. 4**—Size glass, 11x11 inches. 1½-inch wick. Weight, 9 lbs..... " 6 00

No. 4.

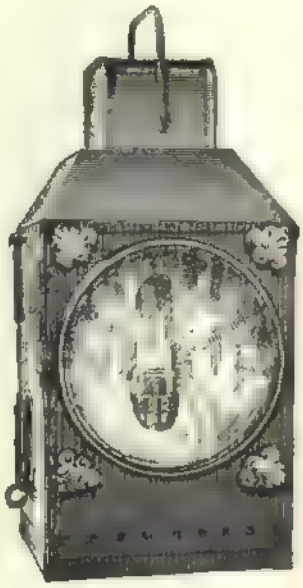
# HEADLIGHTS.

## WAGON.

Nos. 6 and 8.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **No. 6**— | 6-inch lense | | ⅜-inch round wick | | Weight, | 6½ lbs... | Each, | $12 00 |
| **No. 8**— | 8 | " " | 1 | " " " | " | 7¼ " ..... | " | 15.00 |
| **No. 12**— | 12 | " " | 1 | " " " | " | 17 " ..... | " | 20.00 |
| **No. 14**— | 14½ | " " | 1 | " " " | " | 28½ " ..... | " | 30.00 |
| **No. 17**— | 17 | " " | 1⅛ | " " " | " | 36 " ..... | " | 40.00 |
| **No. 20**— | 20½ | " " | 1⅜ | " " " | " | 50 " ..... | " | 50.00 |
| **No. 24**— | 24 | " " | 1¾ | " " " | " | 88 " ..... | " | 65.00 |

## CABLE DUMMY.



No. 12.

## LOCOMOTIVE AND MINING.

Nos. 14 to 24.

# LAMP BURNERS.

Nos. 1 or A and 2 or B.

**No. 1** or **A**— ⅝-inch wick. Weight, 1 lb.. .. ..... Per dozen, $1.25
**No. 2** or **B**— 1 -inch wick Weight, 1½ lbs... .. .. .. .. " 1 50
**No. 20** or **D**— 1½-inch wick Fits B and D collar Weight, 2½ lbs. . . 3 00

One dozen in box

No. 20 or D.

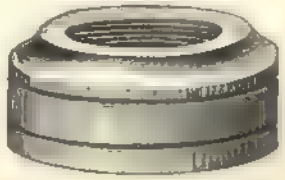
# FEEDER CAPS AND COLLARS.

No. 189.

**No. 189** —Regular cap with plain collar. Weight, ¼ lb. . ....Per dozen, $0 50
**No. 1** or **A**—Collar. Weight, ¼ lb... ..... . ... . . . 75
**No. 2** or **B**— " " ¼ " .. .. . .. . 1 00

No. 189, one gross in box; balance, one dozen in package

# COLLARS.



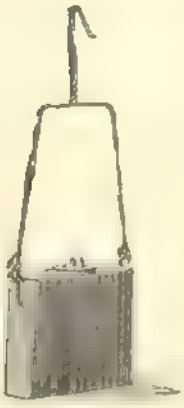
Nos. 1 or A and 2 or B.

# Ship Lamps.

Bunker.

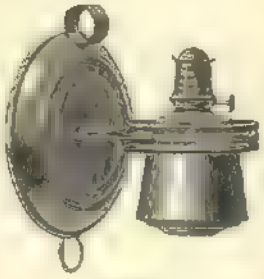
No. 264.

Boiler Tube.



No. 263.

Swivel, Forecastle.



No. 230

Cabin.

No. 229

**No. 264**—Bunker, Galvanized Iron, Capacity, ½ Pint, No. 1, Lard Oil Burner, Weight per Dozen, 5 lbs., ..... Per Dozen, $ 5 00

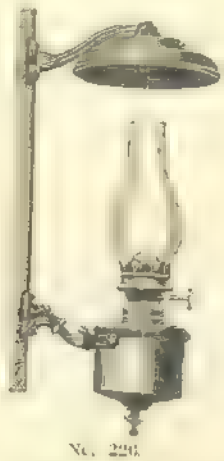
**No. 263**—Boiler Tube, Galvanized Iron, Size 4X3 by 1 in. Wide, No. 1, Lard Oil Burner, Weight per Dozen, 5 lbs ..... Per Dozen, 6 00

**No. 230**—Forecastle, Tin Bracket or Table, No. 0 Sun Hinge Burner and Chimney, Weight per Dozen, 36 lbs..... Per Dozen, 15 00

**No. 229**—Cabin, Brass, Swivel, Bracket, No. 0 Sun Hinge Burner and Chimney, ⅜ in. Wick, Projection, 7 in., Weight per Dozen, 42 lbs..... Per Dozen, 27 00

Cabin.

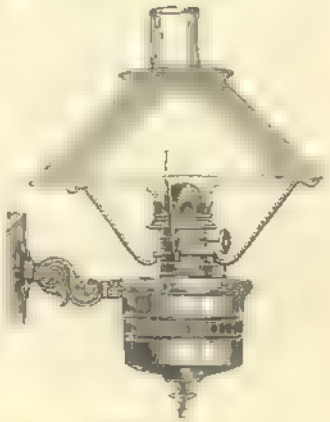
Stateroom.



Cabin.

No. 228

No. 226.



No. 225

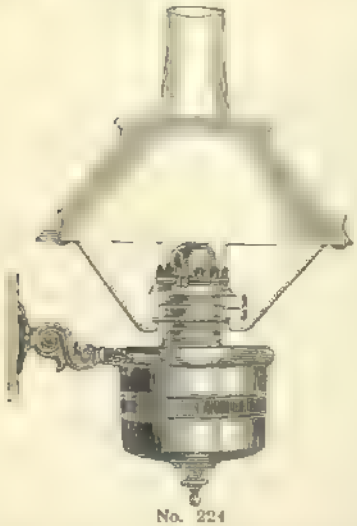
**No. 228**—Cabin, Brass, Swivel, Bracket or Table, No. 1 Sun Hinge Burner and Chimney, ⅝ in. Wick, Projection, 6½ in., Weight per Dozen 55 lbs ..... Per Dozen, $30 00

**No. 226**—Stateroom, Glass Fount, Oxidized Brass Fount Holder, Smoke Bell, No 0 Sun Hinge Burner and Chimney, ⅜in. Wick, Projection, 5 in., Weight per Dozen, 30 lbs ..... Per Dozen, 36 00

**No. 225**—Cabin Glass Fount, Oxidized Brass Fount Holder, Smoke Bell, No. 1 Dua. Burner and Chimney, Two ⅝ in. Wicks, 9 in. Shade, Extreme Projection 9½ in., Weight per Dozen, 65 lbs., Per Dozen, 66 00

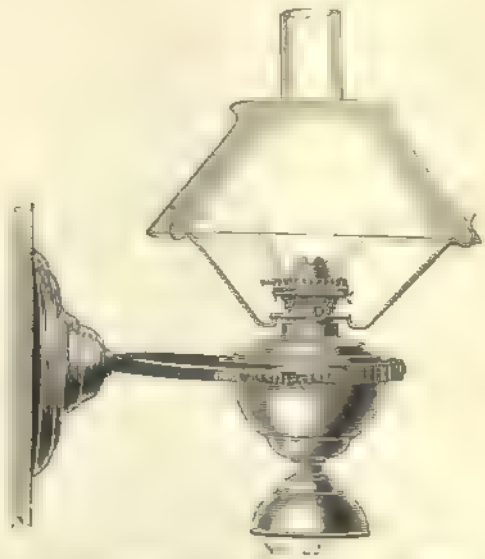
# Ship Lamps.

Cabin Bracket.



No. 224

Cabin.



**No. 224**—Cabin, Glass Fount, Oxidized Brass Fount Holder, Smoke Bell, No. 2 Dual Burner and Chimney. Two 1 in. Wicks, 10 in. Shade Extreme Projection 10½ in., Weight per Dozen, 75 lbs. . . . Per Dozen, $72 00

**No. 227**—Cabin Brass, Gilt Finish, Swivel, Adjustable Back which Allows it to be Used as a Hand Lamp No 2 Dual Burner Two 1 in. Wicks 10 in Shade, Extreme Projection 14 in., Weight per Dozen, 75 lbs. . . . Each, 12 00

## Flash Light.

## Navy Lantern.

## Binnacle Lamp.

No. 12

Nos. 41 and 42.

No. 254

**No. 12** Lantern, Galvanized, Height 11 in., No. 1 Convex Burner, Weight per Dozen, 36 lbs. . . . Per Dozen, $21 00

**No. 41** Binnacle Lamp, Brass, Front 5 x 5½ in., 1 Tube Burner, Lard Oil, Weight Each, 1½ lbs. . . . Each, 5 25

**No 42** " " " " 6X7 " 2 " " " " " " 2 " . . . 6 00

**No 254**—Flash Light, Heavy Bright Tin, Height 15 in., Used by all Pilot Boats for Signaling, Weight per Dozen, 24 lbs. Per Dozen, 24 00

# Ship Side Lights.

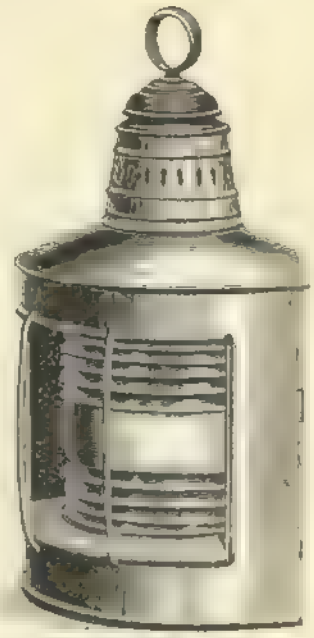
Plain Glass.

Fresnel Glass.

Nos. 198 and 198B

Nos. 197 and 197B

Nos. 196 and 196B



Nos. 195, 195B and 194

**No. 198** Galvanized Iron, Plain Glass. Size 5½×5½ in., Height not Including Handle, 15 in., No. 0 Convex Burner, ⅜ in. Wick. Weight per Pair Net, 4½ lbs. ..... Per Pair, $ 7 25

**No. 198B**—Polished Brass, Size and Description as No. 198 ..... 15 00

**No. 197** —Galvanized Iron, Plain Glass, Size 4½×6½ in., Height not Including Handle, 13 in., No. 1 Convex Burner ⅜ in. Wick, Weight per Pair Net, 7½ lbs. ..... Per Pair, 8 25

**No. 197B** Polished Brass, Size and Description as No. 197 ..... 17 50

**No. 196** —Galvanized Iron, Fresnel Glass, Size 4½×6½ in., Height not Including Handle 15 in., No. 1 Convex Burner ⅜ in. Wick, Weight per Pair Net, 10 lbs. ..... Per Pair, 13 50

**No. 196B**—Polished Brass, Size and Description as No. 196 ..... 24 00

**No. 195** —Galvanized Iron, Fresnel Glass, Size 6×8 in., Height 17 in., No. 1 Convex Burner, ⅝ in. Wick, Weight per Pair 17 lbs. ..... Per Pair, 18 00

**No. 195B**—Polished Brass, Size and Description as No. 195 ..... " " 30 00

**No. 194** —Galvanized Iron, Fresnel Glass, Size 7×11 in., Height 20 in., No. 2 Convex Burner, 1 in. Wick, English Channel Size, Weight per Pair, 30 lbs. ..... Per Pair, 36 00

## Extra Glasses and Founts.

Fresnel Section.

Plain Bent Glass.

### Glasses.

**Plain Bent Glasses for Sidelights.**

| Nos. | 198 | 198B | 197 | 197B |
|---|---|---|---|---|
| Ruby | Each $2 00 | 2 00 | 2 00 | 2 00 |
| Green | " 1 75 | 1 75 | 1 75 | 1 75 |

**Fresnel Sections for Side Lights.**

| Nos | 196 | 196B | 195 | 195B | 194 |
|---|---|---|---|---|---|
| Ruby | Each, $4 00 | 4 00 | 6 00 | 6 00 | 12 00 |
| Green | " 3 00 | 3 00 | 5 00 | 5 00 | 11 00 |

### Extra Founts.

**For Side Lights.**

| Nos. | 198 | 198B | 197 | 197B | 196 | 196B | 195 | 195B | 194 |
|---|---|---|---|---|---|---|---|---|---|
| Per Pair | $0 75 | 0 75 | 0 75 | 0 75 | 1 00 | 1 00 | 1 00 | 1 00 | 1 50 |

# PIPE WRENCHES.

## STILLSON'S.

Jaw.

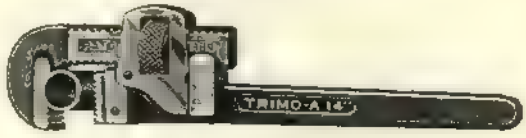
Nut.

Frame.

| Length open, inch..... | 6 | 8 | 10 | 14 | 18 | 24 | 36 | 48 |
|---|---|---|---|---|---|---|---|---|
| Takes from..... | ⅛ in Wire to ⅝-in Pipe. | ⅛-in. Wire to ¾-in Pipe. | ⅛-in Wire to 1-in. Pipe | ⅛-in Wire to 1½-in. Pipe. | ⅛-in. Wire to 2-in Pipe. | ⅛-in. Wire to 2½-in. Pipe. | ½ in. Pipe to 3½-in Pipe | 1-in. Pipe to 5-in. Pipe. |
| Weight, per dozen, lbs . | 4¼ | 8 | 18 | 38 | 66 | 96 | 180 | 288 |
| Each.. .. .... .. ..... .. | $2 00 | $2.00 | $2 25 | $3.00 | $4 00 | $6.00 | $12.00 | $18.00 |
| Extra jaws..... ..... .... | .67 | .67 | .75 | 1.00 | 1.33 | 2.00 | 4.00 | 6.00 |
| Extra frames .. ..... ... | .25 | .25 | 33 | .45 | 55 | 65 | .75 | 1.00 |
| Extra nuts . . ... .. | .20 | 20 | .27 | .35 | .42 | .50 | .65 | .80 |

In ordering parts state the size of wrench.

## TRIMO.




Forged Steel. Parts Interchangeable.

| Length open, inch..... | 6 | 8 | 10 | 14 | 18 | 24 | 36 |
|---|---|---|---|---|---|---|---|
| Takes from..... . ..... .. ..... | ⅛-in. Wire to ½-in. Pipe. | ⅛-in. Wire to ¾-in. Pipe. | ⅛-in. Wire to 1-in. Pipe. | ⅛-in. Wire to 1½-in. Pipe. | ⅛-in. Wire to 2-in. Pipe. | ⅛-in. Wire to 2½-in. Pipe. | ½-in. Pipe to 3½-in. Pipe. |
| Weight, per dozen, lbs.... .... . .. | 6 | 10 | 20 | 36 | 60 | 98 | 204 |
| Each..... ..... ..... | $2 00 | $2 00 | $2.25 | $3 00 | $4.00 | $6 00 | $12 00 |
| Extra jaws... ..... . .... .... ... . . | .67 | .67 | .75 | 1.00 | 1.33 | 2.00 | 4.00 |
| Extra nuts..... | .20 | .20 | .27 | .35 | .42 | .50 | .65 |
| Extra inserted jaws..... | .25 | .25 | .33 | .50 | .55 | .65 | 1.00 |
| Extra frames..... ..... . ..... | .25 | 25 | .33 | 45 | .55 | .65 | .75 |

In ordering parts state the size of wrench.

## BEMIS & CALL CO.'S COMBINATION.

With Wrought Iron Bar, Case-Hardened Throughout. Parts Interchangeable. Bright, with Long Nut.

| Length open, inch..... | 10 | 12 | 15 | 18 |
|---|---|---|---|---|
| Weight, per dozen, lbs . ... . ..... .. ... ..... .... . .... . ..... | 26 | 40 | 55 | 87 |
| For pipe, inch..... | ⅛ to 1 | ⅛ to 1¼ | ⅛ to 2 | ⅛ to 3 |
| Per dozen ..... .. .... . ..... .. ..... ... | $25.25 | $28.50 | $40.50 | $72.00 |
| Extra jaws, with screws..... .....Each, | .38 | .50 | .63 | .75 |

In ordering parts state the size of wrench.

# WRENCHES.

## POCKET.

Nos. 5 and 10.

**No. 5**—Tinned. Length, 5 inches. Weight, 5 lbs..... Per dozen, $3.00
**No. 10**—Nickel-plated. Length, 5 inches. Weight, 5 lbs..... " 4.00
**No. 22**— " " " 5¾ " " 4½ " " 5.00

One dozen in box

## BICYCLE.

No. 22.

## AGRICULTURAL.

Wrought Iron. Black.

| Length, inch. | 6 | 8 | 10 | 12 | 15 |
|---|---|---|---|---|---|
| Weight, lbs. | 8½ | 15 | 20 | 26 | 40 |
| Per dozen. | $9.00 | 10.00 | 12.00 | 14.00 | 24.00 |

## ROBINSON'S.

Steel Bar. Black.

| Length, inch. | 6 | 8 | 10 | 12 | 15 | 18 | 21 |
|---|---|---|---|---|---|---|---|
| Weight, lbs. | 8¾ | 15½ | 22 | 34 | 50 | 71 | 93 |
| Per dozen. | $9.00 | 10.00 | 12.00 | 14.00 | 24.00 | 30.00 | 36.00 |

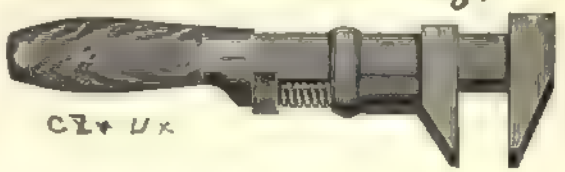
6 to 12 inches, one-half dozen; 15 and 18 inches, one-third dozen; 21 inches, one-twelfth dozen in box.

## P. S. & W. KNIFE HANDLE.

One Piece Solid Steel Forging.

| Length, inch. | 6 | 8 | 10 | 12 | 15 | 18 | 21 |
|---|---|---|---|---|---|---|---|
| Weight, lbs. | 9½ | 16 | 24 | 36 | 52½ | 75 | 98 |
| Per dozen. | $9 00 | 10 00 | 12 00 | 14 00 | 24 00 | 30 00 | 36 00 |

## L. COE'S KNIFE HANDLE.



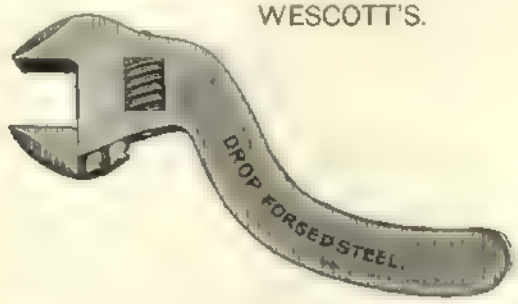
| Length, inch. | 6 | 8 | 10 | 12 | 15 | 18 | 21 |
|---|---|---|---|---|---|---|---|
| Weight, lbs. | 9½ | 16 | 24 | 36 | 53 | 78 | 100 |
| Per dozen. | $9 00 | 10.00 | 12.00 | 14.00 | 24 00 | 30 00 | 36 00 |

6 to 12 inches, one-half dozen; 15 and 18 inches, one-third dozen, 21 inches, one-twelfth dozen in box.

## TABLE SHOWING THE SIZE NUT WRENCH WILL TAKE

| Length wrench, inch | 6 | 8 | 10 | 12 | 15 | 18 | 21 |
|---|---|---|---|---|---|---|---|
| Size nut, inch | ⅜ | 1⅛ | 1⅜ | 2⅛ | 2⅜ | 3 | 4⅛ |

## WESCOTT'S.




Drop Forged Steel.

| Length, inch. | 6 | 8 | 10 | 12 |
|---|---|---|---|---|
| Jaws open, inch. | ⅝ | 1 | 1⅜ | 1⅝ |
| Per dozen ... | $7.20 | 9.00 | 12.00 | 15.00 |

One-half dozen in box.

## BAXTER'S.

Wrought Steel. Polished

| Length, inch. | 4 | 6 | 8 | 10 |
|---|---|---|---|---|
| Weight, lbs. | 3¾ | 6 | 12 | 24 |
| Per dozen | $9 00 | 9 00 | 12.00 | 18.00 |

4-inch, one dozen; balance, one-half dozen in box

# WRENCHES.

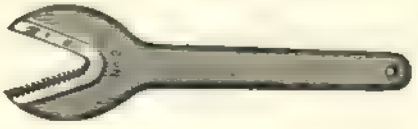
## ELGIN.

Wrought Steel Nickel-Plated

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Length, inch | | | | | | | 7 |
| Weight, lbs | | | | | | | 8 |
| Per dozen | | | | | | | $12 00 |
| Extra Jaws, per dozen | | | | | | | 3 00 |

One dozen in box.

## ALLIGATOR.



| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Length, inch | 5¼ | 10 | 16 | 22 |
| For round iron, inch | ¼ to ⅜ | ⅜ to 1 | ½ to 1¾ | 1½ to 2½ |
| For Pipe | ⅛ to ⅜ | ⅜ to ¾ | ½ to 1¼ | 1¼ to 2 |
| Weight, lbs | 3 | 12 | 36 | 86 |
| Per dozen | $4.00 | 12 00 | 24.00 | 36.00 |

No. 1, bright, balance black.

## ALWAYS READY.

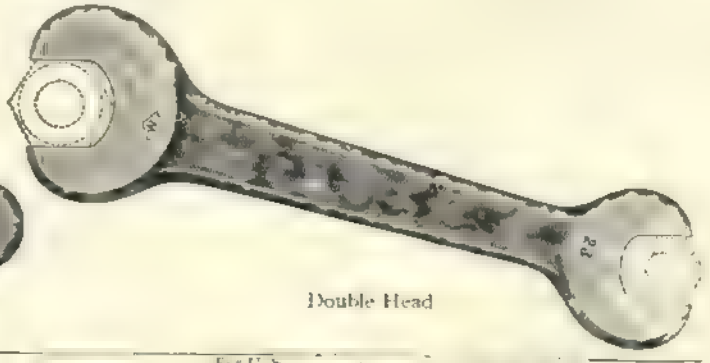
| Nos. | 1 | 2 | 3 | 3 |
|---|---|---|---|---|
| Length, inch | 5 | 7 | 9½ | 11½ |
| For square or round iron, inch | ¼ to ⅝ | ⅜ to 1¼ | ¼ to 1¼ | ⅜ to 2 |
| Weight, lbs | 3½ | 5 | 11½ | 36 |
| Per dozen | $5 00 | 6 75 | 10.50 | 16 00 |

One-half dozen in box.

# ENGINEERS' AND MACHINISTS'.

Drop-Forged From Bar Steel.

Single Head

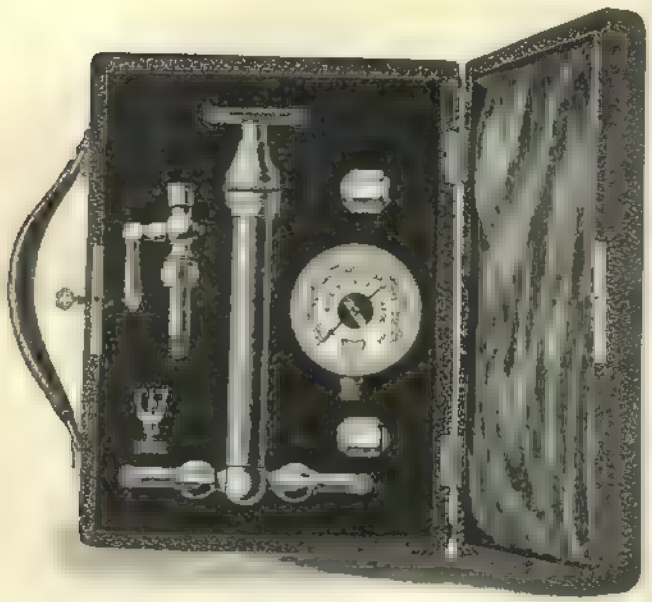


Double Head

| No. | For U. S. Standard Nuts Size Bolt | Extreme Length | Weight Per doz. lbs | Each, Unfinished |
|---|---|---|---|---|
| 1 | ¼ | 5¾ | 1 | $0.10 |
| 2 | 5/16 | 4¾ | 2 | .12 |
| 3 | ⅜ | 5⅝ | 3 | .14 |
| 4 | 7/16 | 6½ | 4½ | .17 |
| 5 | ½ | 7½ | 6 | .20 |
| 6 | 9/16 | 8⅜ | 8 | .25 |
| 7 | ⅝ | 9¼ | 13½ | 32 |
| 8 | ¾ | 11⅞ | 18 | 40 |
| 9 | ⅞ | 13 | 30 | 50 |
| 10 | 1 | 14⅞ | 41 | .65 |
| 11 | 1⅛ | 16⅝ | 60 | 85 |
| 12 | 1¼ | 18½ | 81 | 1 10 |
| 13 | 1⅜ | 20¼ | 96 | 1 40 |
| 14 | 1½ | 22¼ | 117 | 1 75 |
| 16 | 1¾ | 25⅝ | 197 | 2 50 |

| No. | For U. S. Standard Nuts Size Bolt | Extreme Length | Weight Per doz. lbs | Each, Unfinished |
|---|---|---|---|---|
| 22 | ⅛ and ¼ | 4 | 1 | $0 14 |
| 25 | ¼ " 5/16 | 4¾ | 2 | 18 |
| 26 | ¼ " ⅜ | 5⅜ | 3 | 20 |
| 27 | 5/16 " ⅜ | 5⅞ | 3½ | 21 |
| 29 | ⅜ " 7/16 | 6⅞ | 5 | 25 |
| 30 | ⅜ " ½ | 7⅜ | 6 | 28 |
| 31 | 7/16 " ½ | 7¾ | 9½ | 30 |
| 34 | ½ " ⅝ | 9¼ | 13¼ | 41 |
| 37 | ⅝ " ⅝ | 11⅛ | 19½ | 53 |
| 38 | ⅝ " ¾ | 13½ | 20¼ | 62 |
| 39 | ¾ " ⅞ | 13½ | 39 | 65 |
| 40 | ¾ " 1 | 15½ | 40 | 78 |
| 41 | ⅞ " 1 | 15½ | 41 | 42 |
| 43 | ⅞ " 1⅛ | 17⅛ | 66 | 1 08 |
| 44 | 1 " 1¼ | 19⅜ | 83½ | 1 35 |
| 45 | 1⅛ " 1¼ | 19⅜ | 80 | 1 35 |
| 48 | 1¼ " 1½ | 23¾ | 132 | 2 10 |

# Steam Boiler Inspectors' Test Pump and Gauge.



## In Velvet Lined Morocco Case.

This pump is specially adapted for government and insurance boiler inspectors.

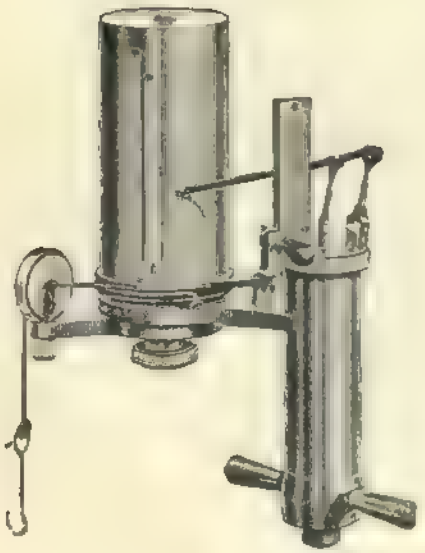
The set consists of:—

| | | |
|---|---|---|
| 1 | Nickel-plated | Test Pump |
| 1 | " " | 3-inch Dial Test Gauge, 300 pounds |
| 1 | " " | Union Cock |
| 2 | | ¼ Hexagon Couplings |
| | | Steam Gauge Hand Remover |
| 1 | | Hand Set |

Weight of instruments and case complete, about eight pounds.

Set Complete ..... $45 00

# Tabor Improved Steam Engine Indicator.



## U. S. Navy Pattern.

The Indicator as Above Shown, Fully Nickel Plated, with One Cylinder Spring, One Boxwood Scale, Two Straight Cocks, 100 Cards, One Screw Driver, One Bottle of Porpoise Oil, Two Wrenches, One Extra Drum Spring, all Enclosed in a Substantial, Well Finished, Black Walnut Box, with Nickel Plated Trimmings Each $100 00

One three-way cock in place of the two straight cocks will be furnished without extra charge, if called for.

With each outfit of Indicators we furnish without charge Houghtaling's book on the Steam Engine Indicator and its Appliances, a valuable publication of 300 pages, describing the operation of the Indicator on all classes of engines.

In this Indicator, which is extensively used in the U. S. Navy, and which has been adopted by the U. S. Navy Department as its standard engine indicator, there is employed an improved device by which the escaping steam can be discharged or directed away from the operator, and in any desired position. This improved device consists of a tempered ring, fitting loosely around the body of the instrument and into which the waste steam first escapes; in this ring a series of holes are drilled for the final escape of the steam to the atmosphere, and it can be swiveled around the indicator body at the will of the operator.

Also the piston cylinder has an inside cylinder which can be replaced when worn out, which feature is a most valuable one, for in the case of other indicators, when the piston cylinder becomes worn, the entire indicator has to be thrown away, whereas with this instrument, with the addition of a new inside piston cylinder practically makes the indicator as good as new.

## The Uses to Which the Steam Indicator May be Applied.

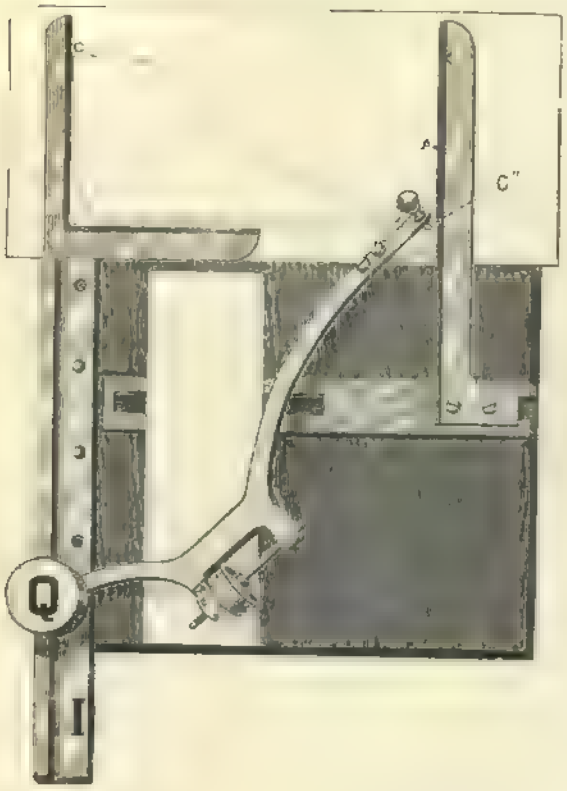
There are three main objects for the determination of which the indicator diagram may be employed:

First—To serve as a guide in setting the valves of an engine.

Second—To determine the indicated power developed by an engine.

Third—To determine, in connection with a feed-water test showing the actual amount of steam consumed, the economy with which an engine works.

# The Coffin Averaging Instrument.



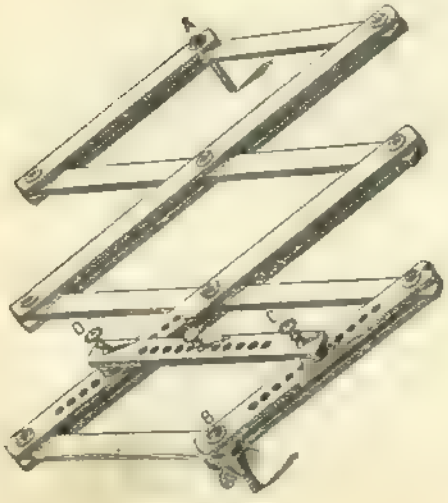

In Morocco Case ..... Each, $37 50

When the mean effective pressure on a large number of diagrams is desired, time and labor may be saved by the employment of an averaging instrument or planimeter, an instrument designed to measure the areas of irregular figures. It is operated by moving a tracer, with which it is fitted, over the line of the diagram, and it records the area upon a graduated wheel

The Coffin Averager gives mean effective pressure (M. E. P.) of an indicator diagram without computation. It may be used also for determining the area inclosed by the diagram. This area is given by the reading on the graduated wheel, when the circuit of the diagram has been made and the tracer reaches the starting point D. The wheel has fifteen main divisions, each of which represents one square inch of area. Each division has five subdivisions, each subdivision representing one-fifth or two-tenths of a square inch of area The vernier scale enables the subdivisions to be read to fiftieths, each of these fiftieths, therefore, representing two one-hundredths of a square inch. Having obtained the area in this manner, the mean effective pressure may be computed by dividing the number of the spring representing the pressure per inch in height by the length of the diagram (inches) and multiplying the quotient by the area (square inches). In first placing the indicator card under the clamps, care must be observed that the ends of the diagram set a little away from the edge of the clamp, so as to allow for one-half the diameter of the tracer, and to bring the center of the tracer over the center of the line of the diagram

Absolute accuracy. Easy to manipulate. No liability to error One diagram per minute measured without effort.

# Lazy Tongs or Pantographs.



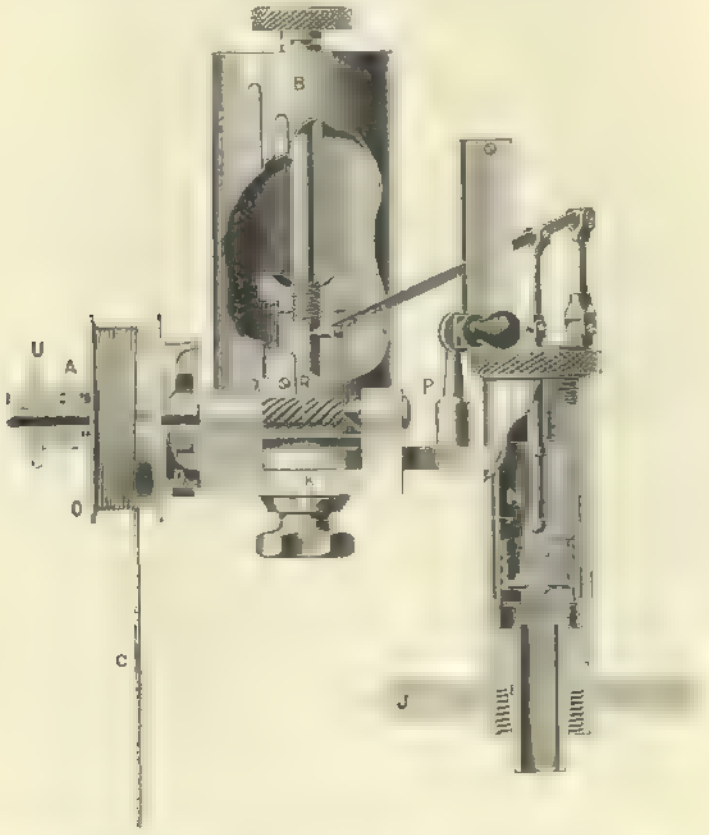
There are various devices used to reduce engine strokes to conform to the travel of the drum of an indicator not equipped with the reducing motion. The cut, one-sixth actual size, is one of the appliances frequently used to obtain the necessary motion (on a reduced scale) between the paper drum and the engine cross-head. This device is pivoted at the end (B) by a stud and winged thumb nut to a block of wood or angle iron secured to the floor of the engine room, while the end (A) is fitted in a suitable piece secured to the cross-head of the engine. The actuating cord from the indicator is attached to the cord-pin (E) on the cross-bar (C D). This cross-bar may be moved in different positions with relation to the center (B) by changing the screws (C and D), and the cord-pin (E) must always be placed in a line with the centers (A and B). The position of the cross-bar (C D) in relation to (B) determines the length of travel of the cord-pin (E), and consequently the length of the diagram.

This Lazy Tongs can be used to obtain any desired reduction of motion of the engine piston, of various length strokes up to 72 inches.

Each. . . . . $12 00

# Tabor Steam Engine Indicator.

## With Houghtaling Reducing Motion.




**Tabor Indicator** As Shown, Fully Nickel Plated with One Cylinder Spring, One Boxwood Scale Two Straight Cocks, 100 Cards, Two Screw Drivers, One Bottle Porpoise Oil, Two Wrenches One Extra Drum Spring, All Enclosed in a Substantial, Well Finished Black Walnut Box, with Nickel Plated Trimmings. .....Each, $135 00

One three-way cock, in place of two straight cocks, will be furnished without extra charge if called for

With each outfit of Indicators we furnish, without charge, Houghtaling's book on the Steam Engine Indicator and its Appliances, a valuable publication of 300 pages, describing the operation of the Indicator on all classes of engines

# Patent Duplex Springs.

The maximum safe steam pressures above atmosphere, to which the various springs made for the Indicator can be subjected, are given in the following table

| Scale of Spring..... | 8 | 10 | 12 | 16 | 20 | 24 | 30 | 32 | 40 | 48 | 50 | 60 | 64 | 80 | 100 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Maximum Safe Pressure, lbs., per Square in. to 200 Revolutions | 10 | 15 | 20 | 28 | 40 | 48 | 70 | 75 | 95 | 112 | 120 | 140 | 152 | 180 | 200 |

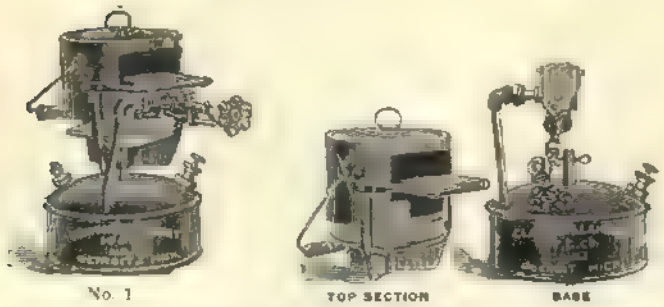
## Tabor Steam Engine Indicator.

### Prices for Parts and Extras.

| | | |
|---|---|---|
| Patent Duplex Springs..... | Each, | $6 00 |
| Steel Scales, 7 Graduations..... | " | 2 00 |
| Nickeled Elbows ..... | " | 3 25 |
| Double Carrying Pulleys..... | " | 4 00 |
| Parallel Rule..... | " | 9 00 |
| Metallic Cards.....Per Hundred, | | 1 00 |
| Plain Cards.....Per Hundred, | | $0 60 |
| Cord, Warranted Non-Stretchable.....Per Hank, | | 65 |
| Drum Spring ..... Each | | 60 |
| Houghtaling's Book on the Steam Engine Indicator and its Appliances..... | | 3 00 |

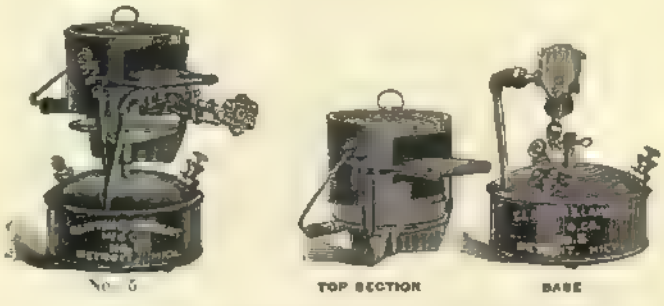
# Gasoline Fire Pots.

## For Tinners, Galvanized Iron and Copper Workers.



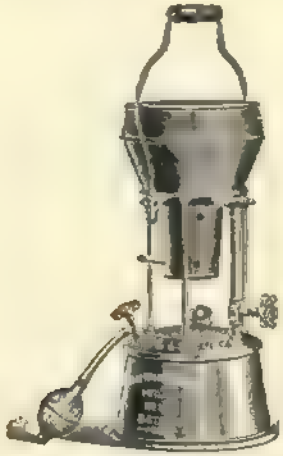

**No 1**—Clayton's Furnace, Galvanized Tank, Size 8¾×3⅝ in., with Japanned Sheet Iron Hood. Weight Each, 8½ lbs ..... Each, $9 00

## Special Tinners' Furnace.



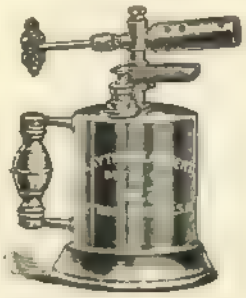

**No. 5**—Clayton's Furnace, Galvanized Tank, Size 8×3⅜ in., with Japanned Sheet Iron Hood, Weight Each, 7½ lbs ..... Each, $8 00

## Coil Fire Pot.



**No. 10**—Heavy Tin Tank, Galvanized Cast Top, Steel Burner, Air Needle Valve, Weight Each, 7½ lbs., ..... Each, $4 50

## Blow Torches.



**No. 2**—All Right, Seamless Tank, made of Heavy Spun Brass, with Brass Air Pump Screwed Inside, Weight Each, 5 lbs ..... Each, $4 50

Produces from Gasoline, a solid blue flame of intense heat, suitable for Plumbers', Electricians' and Painters' use.

**No. 6**—Combination, Seamless Tank, made of Heavy Spun Brass, with Brass Air Pump Screwed Inside and Soldering Copper Attachment ..... Each, $5 00

Produces from Gasoline, a solid blue flame of intense heat, suitable for Tinners', Plumbers', Electricians' and Painters' use.

## Blow Torch.

**No. 7**—Size Smaller than No. 2, Description same as No. 2, Weight Each, 3 lbs ..... Each, $3 50

# Soldering Coppers.

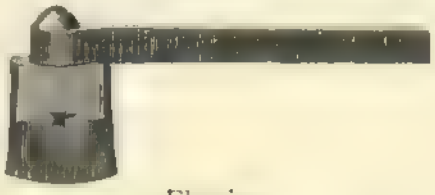
## Pointed Pattern.

**Weight**—1, 2, 3, 4, 5, 6, 8, 10 and 12 lbs. per Pair ..... Per Pound, $....

## Canners'.

Dotting.

Hatchet.



Floating.

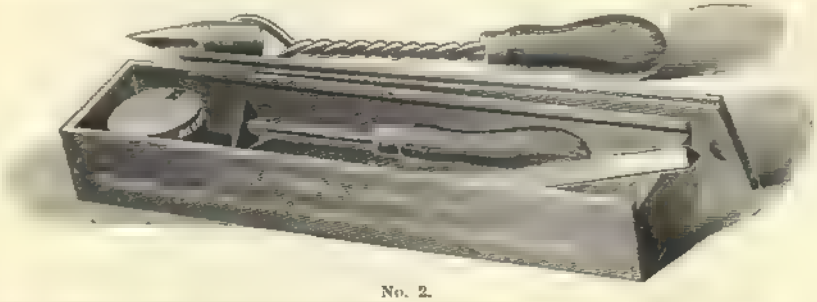
Seaming.

Canners' Soldering Coppers ..... Per Pound, $....

# Soldering Sets.

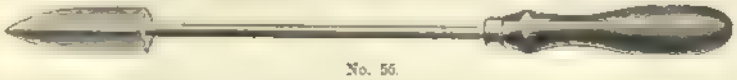
No. 1.

**No. 1 Set**—Is Arranged so that it can be Attached to Gas Burner to be Heated . . . . Per Dozen, $12 00



No. 2.

**No. 2 Set** Complete, as Shown in Cut, Weight per Dozen, 16 lbs..... Per Dozen, $6 00



No. 55.

**No. 55 Set**—Complete, with Soldering Copper, Piece of Tin, Bar Solder and Box Rosin. Weight per Dozen. 8 lbs..... Per Dozen, $3 00

# Tinners' Shears or Snips.

## Ajax Hand.

Hardened Blades.

| Cut, inch | 3 | 2½ | 3 |
|---|---|---|---|
| Weight per Dozen, lbs | 16 | 18 | 23 |
| Per Dozen | $12 00 | 15 00 | 18 00 |

Packed as Ordered

## Double-Cutting Shear and Pipe Crimper.

Wrought Steel Laid.

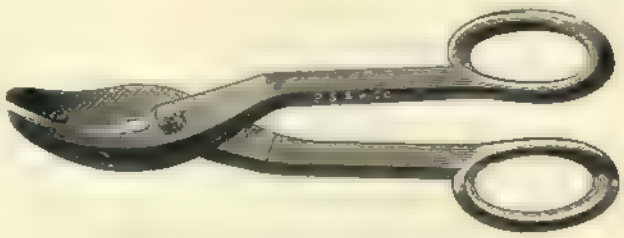
**No. 2**—Combined Shear and Pipe Crimper. Length 13 in., Weight per Pair, 3 lbs. ..... Per Pair, $3 00

Suitable for cutting round or square work. The blade is pointed and readily inserted in the metal at the point desired to begin the cutting.

## Columbia Hand.

Wrought Steel Laid.

| Nos. | 6½ | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|
| Cut, inch | 4½ | 4 | 3½ | 3 | 2½ |
| Weight per Pair, lbs. | 3 | 2¼ | 1⅞ | 1⅜ | ⅞ |
| Per Pair | $3 00 | 2 50 | 2 00 | 1 50 | 1 40 |



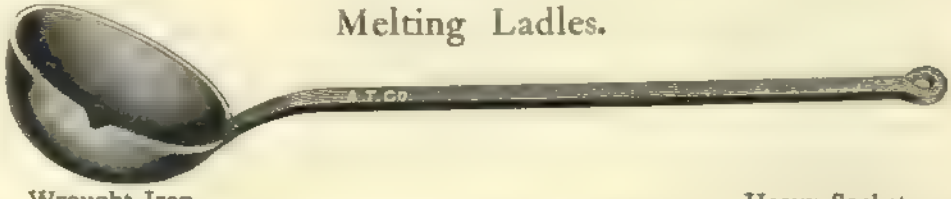
Circular, Wrought Steel Laid.

| Nos. | 7 | 8 |
|---|---|---|
| Cut, inch | 4 | 3½ |
| Weight per Pair, lbs. | 2¼ | 1¾ |
| Per Pair | $3 50 | 3 00 |

## Bench Shears.

| Nos. | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| Cut, inch | 10½ | 9 | 8⅝ | 8⅜ | 8 |
| Weight per Pair, lbs. | 28 | 24 | 20 | 16 | 12 |
| Per Pair | $12 00 | 8 00 | 7 00 | 6 00 | 5 00 |

## Melting Ladles.



Wrought Iron.

| Diameter, inch | 2½ | 3 | 3½ | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Per Dozen | $2 00 | 2 25 | 2 50 | 3 00 | 3 50 | 4 50 |

Heavy Socket.

| Diameter, inch | 6 | 7 | 8 | 10 |
|---|---|---|---|---|
| Per Dozen | $15 00 | 18 00 | 20 00 | 30 00 |

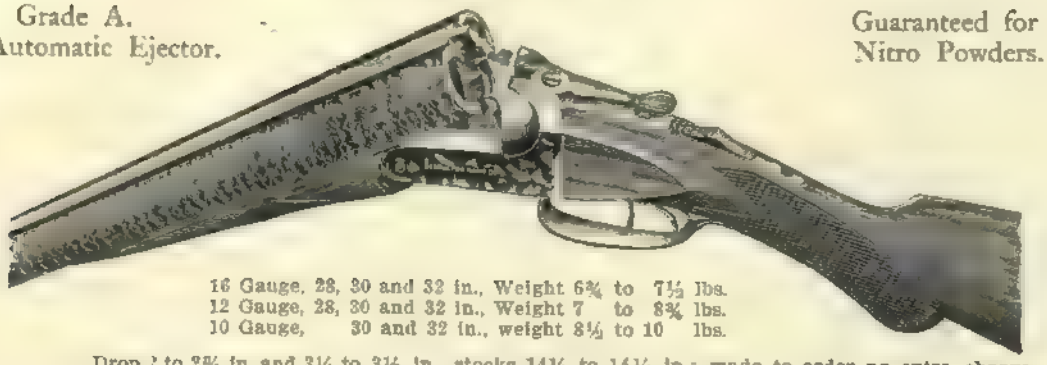
All Above Packed as Ordered.

# Double Barrel Shot Guns.

## Remington Hammerless.

Grade A.
Non-Automatic Ejector.

Guaranteed for
Nitro Powders.



16 Gauge, 28, 30 and 32 in., Weight 6¾ to 7½ lbs.
12 Gauge, 28, 30 and 32 in., Weight 7 to 8¾ lbs.
10 Gauge, 30 and 32 in., weight 8½ to 10 lbs.

**Drop 2 to 2⅝ in. and 3¼ to 3½ in., stocks 14¼ to 14½ in.; made to order no extra charge.**
**Drop 2⅞ to 3⅛ in.; regular length stock, 14 in.; carried in stock.**
**Any deviation will be subject to an advance of $4.00 list.**

Damascus Barrels Choke-bored, English Walnut Stock, Half or Full Pistol Grip, Rubber Butt Plate Checkered Fore-end, Case hardened Frame and Mountings, Automatic Safety, Purdy Fore-end snap Top Snap, Extension Rib with Bite Flat matted Rib.

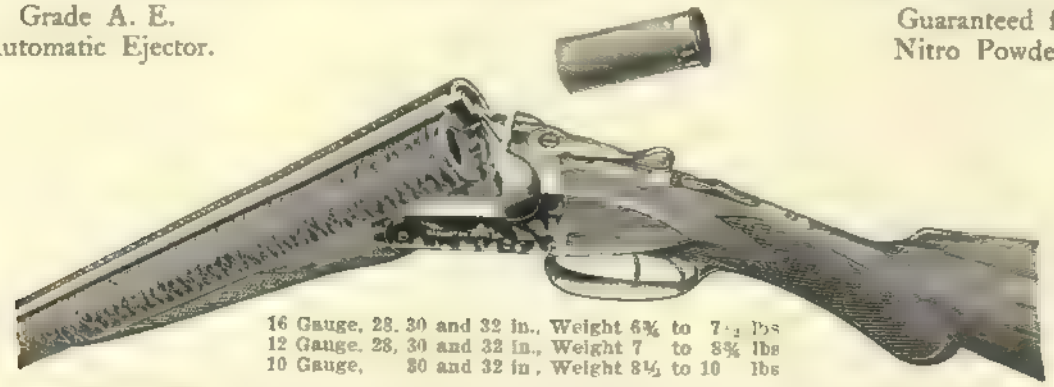
### 10, 12 and 16 Gauge.

| | EACH. |
|---|---|
| **Grade A.**—Two Stripe Damascus Barrels, Plain Finish, English Walnut Stock | $ 45 00 |
| **Grade B** Fine Three Stripe Damascus Barrels, Line Engraving, Fine English Walnut Stock | 60 00 |
| **Grade C** —Finer Damascus Barrels, Scroll Engraving, Selected English Walnut Stock and Finer Checkering, Silver Name-plate. | 90 00 |
| **Grade D** —Very Fine Damascus Barrels, Fine Scroll Engraving, Fine English Walnut Stock and Checkering, Silver Name-plate. | 150 00 |
| **Grade E.** —Finest Damascus Barrels, Finest Quality Bird and Game Engraving, Best English Walnut Stock, Checkered Sides, Gold Name-plate | 225 00 |
| **Grade A R** Remington Steel Barrels, Blue, English Walnut Stock, Finish the same as Grade A | 45 00 |
| **Grade A.O** —Extra Quality "Ordnance" Steel Barrels, Blue English Walnut Stock, Finish the same as Grade A. | 60 00 |
| **Grade B.O** " " " " " " " " " " " " B | 75 00 |

**In the C, D, and E Grades, "Ordnance" steel barrels will be furnished without extra charge**
**The price of barrels in any grade is one-half the price of the gun of that grade**

Grade A. E.
Automatic Ejector.

Guaranteed for
Nitro Powders.



16 Gauge, 28, 30 and 32 in., Weight 6¾ to 7½ lbs
12 Gauge, 28, 30 and 32 in., Weight 7 to 8¾ lbs
10 Gauge, 30 and 32 in., Weight 8½ to 10 lbs

**Drop 2 to 2⅝ in. and 3¼ to 3½ in., stocks 14¼ to 14½ in.; made to order no extra charge.**
**Drop 2⅞ to 3⅛ in.; regular length stock, 14 in.; carried in stock.**
**Any deviation will be subject to an advance of $4.00 list.**

Damascus Barrels Choke-bored English Walnut Stock, Half or Full Pistol Grip, Rubber Butt Plate, Checkered Fore-end, Case-hardened Frame and Mountings, Automatic Safety, Purdy fore-end snap, Top Snap, Extension Rib with Bite Flat matted Rib, Independent Automatic Shell Ejector.

### 10, 12 and 16 Gauge.

| | EACH. |
|---|---|
| **Grade A. E.** —Two Stripe Damascus Barrels, Plain Finish, English Walnut Stock | $50 00 |
| **Grade B. E**—Fine Three stripe Damascus Barrels, Line Engraving, Fine English Walnut Stock | 65 00 |
| **Grade C. E** —Finer Damascus Barrels, Scroll Engraving, Selected English Walnut Stock and Finer Checkering, Silver Name-plate. | 95 00 |
| **Grade D. E** Very Fine Damascus Barrels, Fine Scroll Engraving, Fine English Walnut Stock and Checkering, Silver Name-plate. | 155 00 |
| **Grade E. E** Finest Damascus Barrels, Finest Quality Bird and Game Engraving, Best English Walnut Stock, Checkered Sides, Gold Name Plate | 230 00 |
| **Grade A E R** Remington Steel Barrels Blue, English Walnut Stock, Finish the Same as Grade A E | 50 00 |

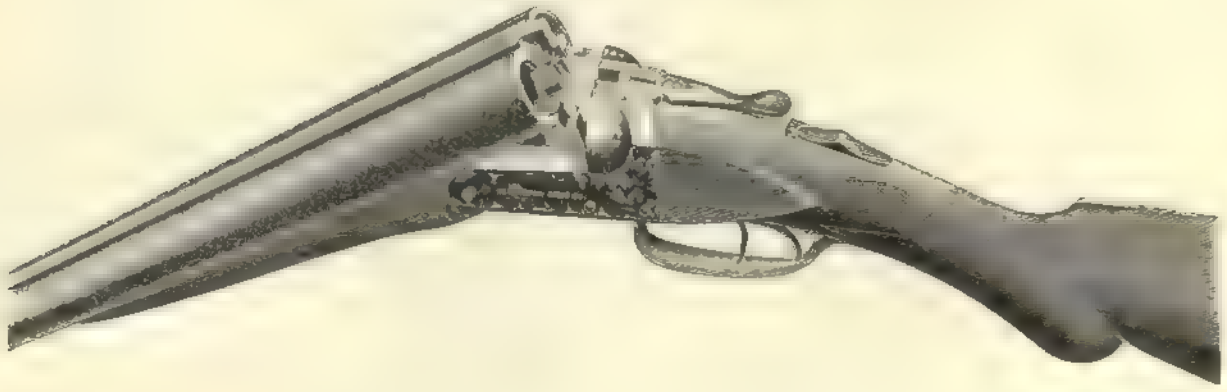
Remington Blue Steel Barrels are Manufactured in Our Own Works, and Sold at the Same Price as Ordinary Damascus Barrels. Guaranteed for Nitro Powders, and Free from all Imperfections.

| | |
|---|---|
| **Grade A E O.** Extra Quality "Ordnance" Steel Barrels, Blue English Walnut Stock, Finish the Same as Grade A E | $65 00 |
| **Grade B E.O.** " " " " " " " " " " " " B E | 80 00 |

For Parts and Prices, see Pages 1079 and 1080.

DEPARTMENT No. 9.

# GUNS, REVOLVERS, AMMUNITION,



## Sportsmen's Supplies, Fishing Tackle, Etc.

The Schwabacher Hardware Co.

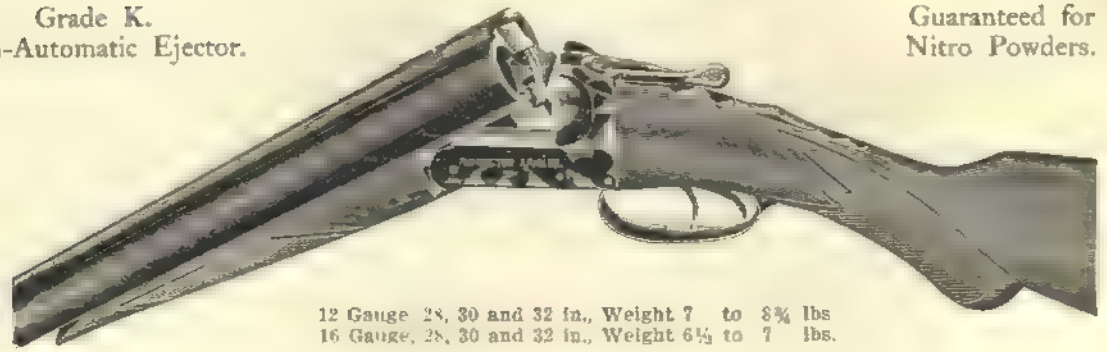
Seattle, Wash.

# Double Barrel Shot Guns.

## Remington Hammerless.

Grade K.
Non-Automatic Ejector.

Guaranteed for
Nitro Powders.



12 Gauge 28, 30 and 32 in., Weight 7 to 8¾ lbs
16 Gauge, 28, 30 and 32 in., Weight 6½ to 7 lbs.

Drop 2 to 2¼ in and 3⅛ to 3½ in., stocks 14¼ to 14½ in.; made to order no extra charge.
Drop 2⅞ to 3⅛ in.; regular length stock 14 in.; carried in stock.

12 and 16 Gauge.

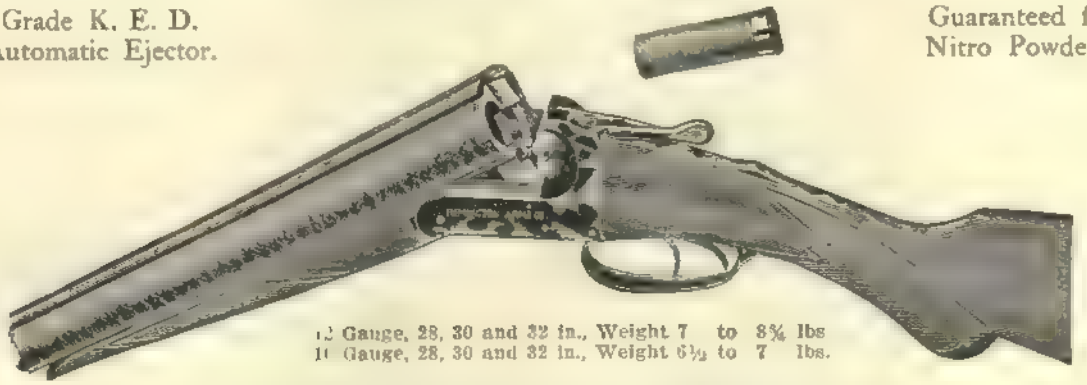
**Grade K.**—Remington Blued Steel Barrels, Choke Bored, Selected Walnut Stock, Half Pistol Grip, Checkered, Rubber Butt Plate, Case hardened Frame and Mountings Non Automatic Ejector, Snap Fore-end, Flat Matted Rib, Automatic Safety and Triple Locked Action . . Each, $35 00

Remington K guns are built on the Anson & Deeley principle, the piece being cocked by "breaking" the gun through the action of cocking levers on the hammers.

For Parts and Prices, see Pages 1079 and 1080.

Grade K. E. D.
Automatic Ejector.

Guaranteed for
Nitro Powders.



12 Gauge, 28, 30 and 32 in., Weight 7 to 8¾ lbs
16 Gauge, 28, 30 and 32 in., Weight 6½ to 7 lbs.

Drop 2 to 2¾ in. and 3⅛ to 3½ in., stocks 14¼ to 14½ in.; made to order no extra charge.
Drop 2⅞ to 3⅛ in.; regular length stock, 14 in.; carried in stock.

Any deviation will be subject to an advance of $4.00 list.

12 and 16 Gauge.

**Grade K E D.**—Damascus Barrels, Choke Bored, Selected Walnut Stock, Half Pistol Grip, Checkered, Rubber Butt Plate, Case-hardened Frame and Mountings, Automatic Ejector, Snap Fore end, Flat Matted Rib, Automatic Safety and Triple Locked Action . . . . . Each, $45 00

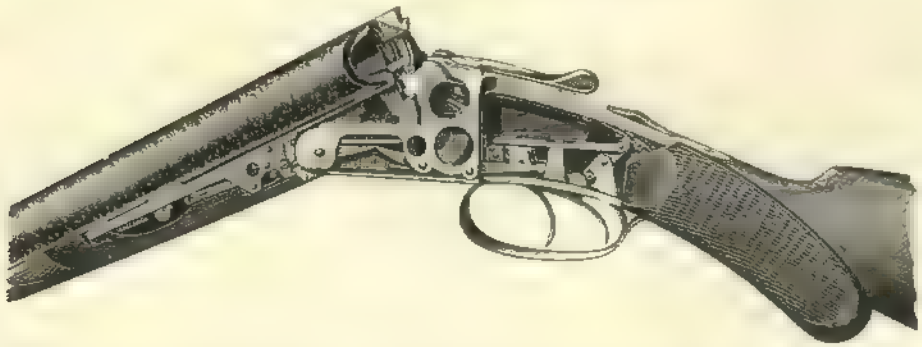
Remington K. E. D guns are built on the Anson & Deeley principle the piece being cocked by "breaking" the gun through the action of cocking levers on the hammers.

For parts and prices, see pages 1079 and 1080.

# Double Barrel Shot Guns.

## Remington Hammerless.

Sectional View Automatic Ejector Model.



Sportsmen will find the Remington Hammerless Gun an exceedingly strong and durable arm. The mechanism which is very simple, can be readily understood from the sectional cut. The cocking mechanism consists of hammers, cocking levers, triggers, main and sear springs. In opening the gun, the fore-end engages with the cocking levers which raises the hammers to full cock, when the sears drop into position. The gun can be taken apart or put together with one or both hammers cocked or uncocked. This obviates trouble or the use of special tools in assembling, and does away with the snapping of hammers, or putting the gun away cocked as required in some actions. The hammers can be let down without snapping, by breaking down the gun, pushing forward the safety slide and closing the action as the triggers are pulled. The cocking mechanism is so arranged that before the gun can be opened sufficiently to admit of a shell being inserted in the chamber both hammers are cocked and the triggers are locked automatically.

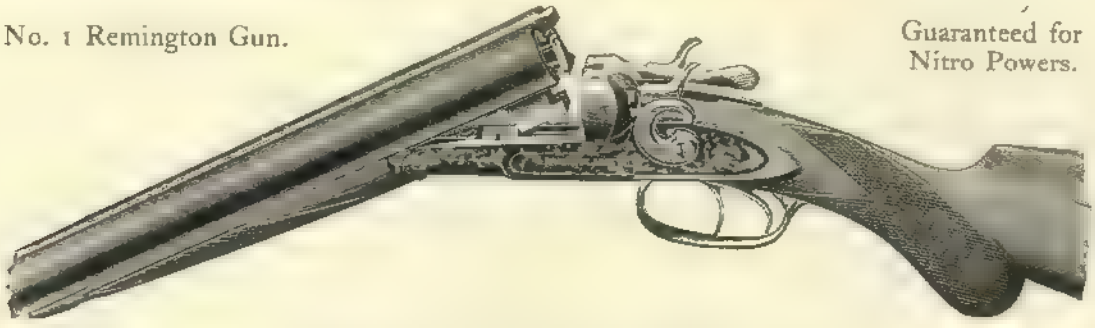
To open the gun push the top lever to the right; this retracts the main bolt and throws the safety plunger into position, thereby locking the triggers securely. This action being positive, the gun cannot be opened without operating the safety mechanism. Any person desiring to use the gun without the automatic safety, can by removing the stock, take out the safety plunger, thereby removing the automatic attachment which will, however, allow of the safety being operated by the thumb.

The automatic ejector is composed of hammer, sear, center sear, main and sear springs and is cocked by the action of the extractor when closing the gun. It is operated when the gun is fired by the main spring moving forward and lifting the ejector sear out of the ejector hammer notch. This allows the ejector hammer to fall on the center sear where it remains until the gun is nearly opened, when the joint check engages with the center sear and raises it out of the ejector hammer notch. Then the ejector hammer moving forward, strikes the ejector stem, causing the fired shell to be expelled from the gun.

## Remington New Model Hammer.

No. 1 Remington Gun.

Guaranteed for Nitro Powers.



16 Gauge, 28, 30 and 32 in., Weight 6¾ to 7½ lbs.
12 Gauge, 28, 30 and 32 in., Weight 7 to 9 lbs.
10 Gauge, 30 and 32 in., Weight 8½ to 10¼ lbs.

Barrels not made over 32 inches long.

### 10, 12 and 16 Gauge.

Bar locks new style low circular hammers, rebounding, pistol grip, matted extension rib, double bolt, solid strikers, Deeley & Edge fore-end, checkered grip and fore-end, rubber butt, both barrels choke-bored

| | EACH. |
|---|---|
| No. 1.—Decarbonized steel barrels | $30 00 |
| No. 2.—Fine twist barrels | 35 00 |
| No. 3.—Damascus steel barrels | 40 00 |

Regular length of stocks, 14 in., with drop from 2⅝ to 3⅛ in. Any deviation will be subject to an advance in price of $4.00 list. The price of barrels in any grade is one-half the price of the gun of that grade.

For Parts and Prices, see Page 1081.

1847 ROGERS BROS.

## Silver Plated Tea Spoons.

Cuts Full Size

Windsor

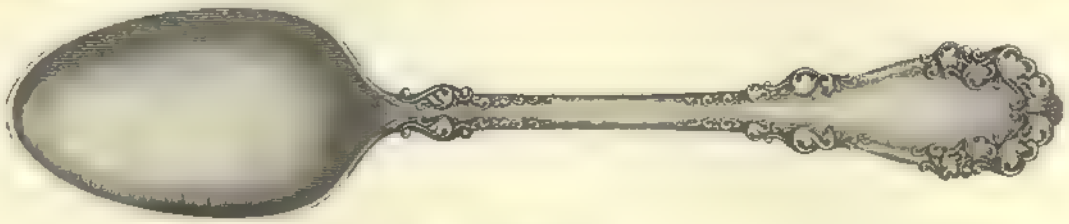
**A1 or Extra Plate**—Satin Finish ..... Per Dozen, $4 25

Shell.

**A1 or Extra Plate**—Satin Finish ..... Per Dozen, $4 25

Vesta.

**A1 or Extra Plate** ..... Per Dozen, $4 75



Berkshire.

**A1 or Extra Plate** ..... Per Dozen, $4 75

All Half Dozen in a Package, One Dozen in a Box.

1847 ROGERS BROS.

## Silver Plated Dessert Spoons.

Cuts Full Size.

Windsor

**A1 or Extra Plate**—Satin Finish.....Per Dozen, $7 50

Shell.

**A1 or Extra Plate**—Satin Finish .. .. . ..... .. . . . . Per Dozen, $7 50

Vesta.

**A1 or Extra Plate**.....Per Dozen, $8 50

Berkshire.

**A1 or Extra Plate**.....Per Dozen, $8 50

All Half Dozen in a Package, One Dozen in a Box.

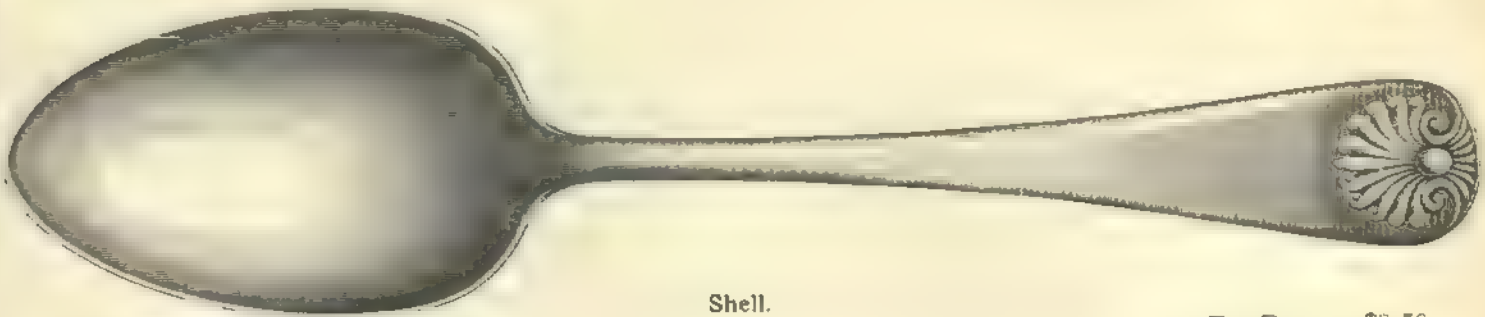
1847 ROGERS BROS.

## Silver Plated Table Spoons.

Cuts Full Size

**Windsor**

**A1 or Extra Plate** -Satin Finish . . . . . Per Dozen, $8 50



**Shell.**

**A1 or Extra Plate**—Satin Finish . . . . Per Dozen, $8 50

**Vesta.**

**A1 or Extra Plate** . Per Dozen, $9 50

**Berkshire.**

**A1 or Extra Plate** . . . . . Per Dozen, $9 50

All Half Dozen in a Package, One Dozen in a Box.

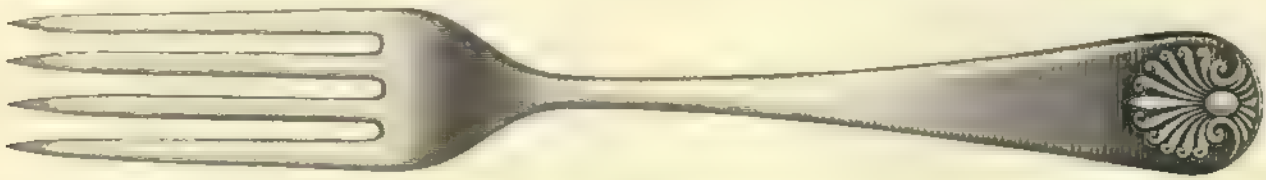
1847 ROGERS BROS.

## Silver Plated Dessert Forks.

Cuts Full Size

Windsor

| | | |
|---|---|---|
| **A1 or Extra Plate** | Per Dozen, | $7 50 |
| **A1 or Extra Plate**—Satin Finish | " " | 7 50 |

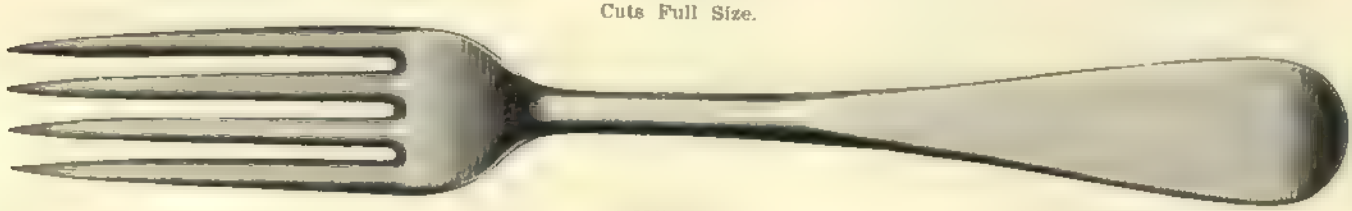


Shell.

| | | |
|---|---|---|
| **A1 or Extra Plate** | Per Dozen, | $7 50 |
| **A1 or Extra Plate**—Satin Finish | " " | 7 50 |

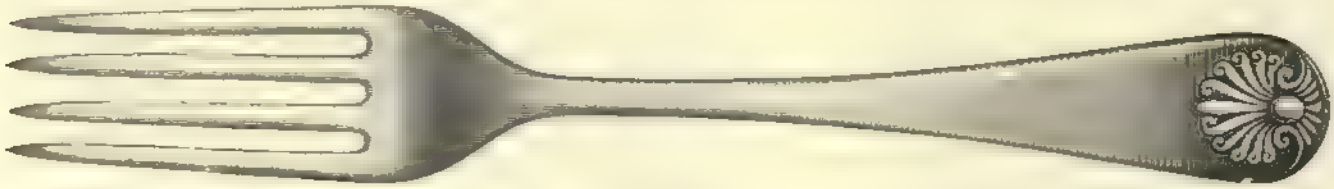
## Silver Plated Medium Forks.

Cuts Full Size.



Windsor

| | | |
|---|---|---|
| **A1 or Extra Plate** | Per Dozen, | $8 50 |
| **A1 or Extra Plate**—Satin Finish | " " | 8 50 |



Shell.

| | | |
|---|---|---|
| **A1 or Extra Plate** | Per Dozen, | $8 50 |
| **A1 or Extra Plate**—Satin Finish | " " | 8 50 |

All Half Dozen in a Package, One Dozen in a Box.

# Double Barrel Shot Guns.

## Parker Hammerless.

Cut of VH

**No. VH**—12 or 16 Gauge, Vulcan Steel Barrels, American Walnut Stock, Checkered and Engraved, Pistol Grip, Rubber Butt Plate, Drop of Stock 2¼ to 3 in., Length of Stock, 14 to 14¼ in. . . . . Each, $50 00

Guns in VH Grade can be furnished with Special Length and Drop of Stock at an advance of $1 00 to the List Price

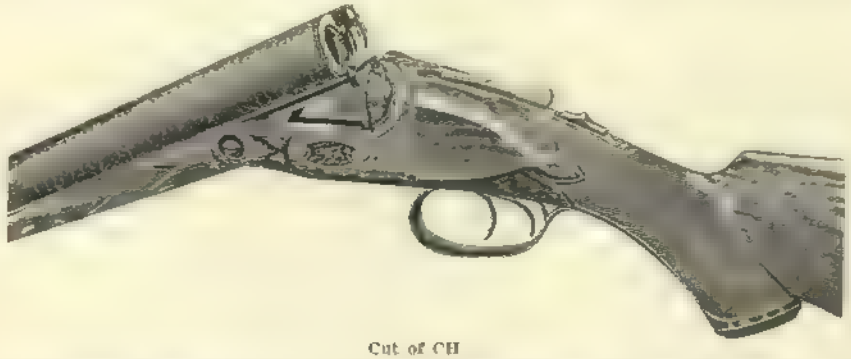
Cut of PH

**No. PH**—12, 16 or 20 Gauge, Fine English Twist Barrels, Fine American Stock, Rubber Butt Plate, Pistol Grip Checkered and Engraved. . . . . Each, $65 00

**No. NH** 10 Gauge, Fine English Twist Barrels, Fine American Stock, Rubber Butt Plate, Pistol Grip, Checkered and Engraved. . . . . Each, 70 00

**No. GH** -12, 16 or 20 Gauge, Fine Damascus Steel Barrels, Fine Figured American or Imported Stock, Rubber Butt Plate, Straight or Pistol Grip, Checkered and Engraved. . . . . Each, 80 00

**No. DH**—10, 12, 16 or 20 Gauge, Fine Damascus or Titanic Steel Barrels, Fine Imported Stock, Silver Shield, Skeleton Butt Plate, Straight or Pistol Grip, Finely Checkered and Engraved . . . . . Each, 100 00



Cut of CH

**No. CH**—10, 12, 16 or 20 Gauge, Fine Bernard or Titanic Steel Barrels, Imported Walnut Stock, Silver Shield, Finely Checkered and Engraved, Skeleton Butt Plate, Straight or Pistol Grip . . . . . Each, $150 00

Length of Barrels, 26, 28, 30 and 32 in. Drop of Stock, 2 to 3 in. Weight 10 Gauge, 8 to 10½ lbs., 12 Gauge, 7 to 9 lbs., 16 to 20 Gauge, 5¾ to 7 ½ lbs. Each.

**Special Patterns, Weights and Lengths Made to Order.**

# Double Barrel Shot Guns.

## Baker Hammerless.

Grade A.

Guaranteed for Nitro Powders.

10 Gauge, 30 and 32 in., Weight 7¾ to 10 lbs.
12 Gauge, 30 and 32 in., Weight 7¼ to 9 lbs.
16 Gauge, 28 in., Weight 6½ to 7¼ lbs.
Drop of stock at heel, from 2⅝ to 3¼ in.; length of stock, 13⅝ to 14¼ in

10, 12 and 16 Gauge.

**Grade A** Fine Four Blade Damascus Barrels in Beautiful Figures, Choke Bored The R.bs are Matted, the Frame, Guard, Lock plates and Lever, are Nicely Engraved. The Stocks are of Selected Imported Walnut, the Checkering is Laid out in Handsome Designs and is of High Class Workmanship ..... Each, $65 00

Grade B.

Guaranteed for Nitro Powders.

16 Gauge, 28 in., Weight 6½ to 7¼ lbs
12 Gauge, 30 and 32 in., Weight 7¼ to 9 lbs.
10 Gauge, 30 and 32 in., Weight 7¾ to 10 lbs.
Drop of stock at heel, from 2⅝ to 3¼ in.; length of stock, 13⅝ to 14¼ in.

10, 12 and 16 Gauge.

**Grade B**—Best London Damascus Twist Barrels, Choke Bored. The R.b is Matted, the Frame, Guard, Lock Plates, Front Circle and Lever are Neatly Engraved with Game and Scroll Work on every Gun ..... Each, $50 00

## Lock of the Baker Hammerless.

This cut shows all the working parts of the Lock of the Baker Hammerless The Lock is rebounding. There is no sticking of the firing-pin in the primers.

The shooting power of the Baker Hammerless Gun is of a high order. The patterns are regular and even, yielding averages from the cylinder to the full choke bores that should satisfy the most fastidious shooter.

All Baker Guns made with both barrels full choke unless otherwise ordered There is no extra charge for changing one or both barrels to cylinder or modified choke if so requested at time of ordering.

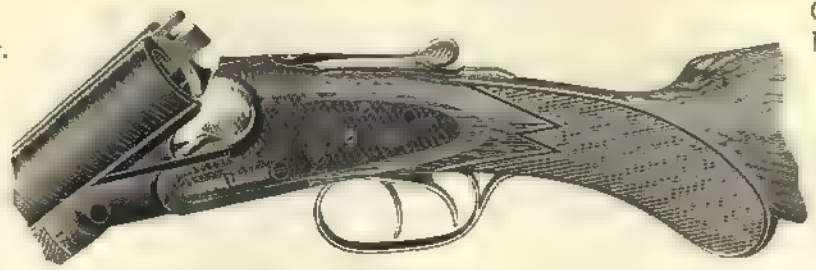
All Hammerless guns are tested with nitro powder unless otherwise ordered Chilled shot is used with nitro powder

# Double Barrel Shot Guns.

## Baker Hammerless.

Grade, Batavia Leader.

Guaranteed for Nitro Powders.



12 Gauge, 30 and 32 in., Weight 7 to 9 lbs.
Drop of stock at heel, from 2⅝ to 3¼ in.; length of stock, 13⅜ to 14¼ in

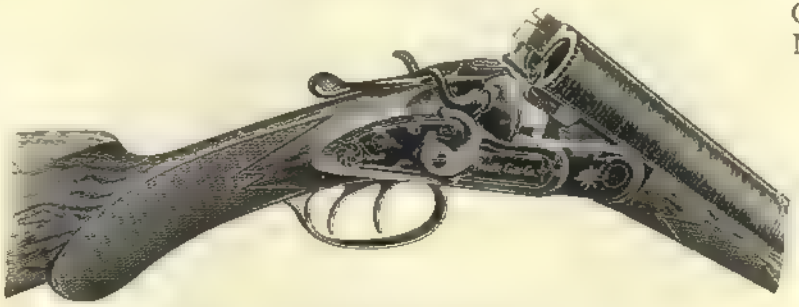
12 Gauge.

**Batavia Leader**—Fine Twist Barrels, Choke Bored, Selected Walnut Stock, Half Pistol Grip, Checkered, Rubber Butt Plate, Snap Fore arm, Hollow Matted Rib, Automatic Safety Firing Pin Block Each, $35 00

## Baker Hammer.

Model '97.

Guaranteed for Nitro Powders.

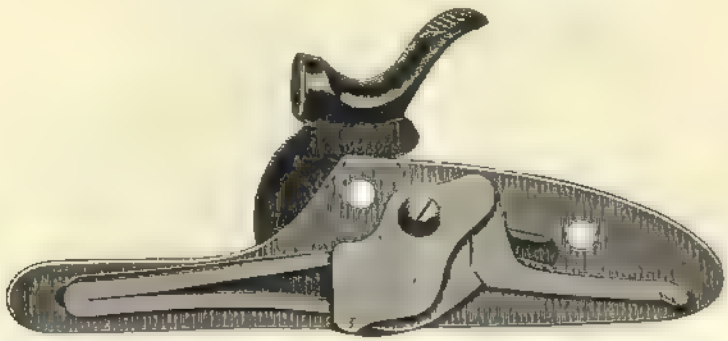


12 Gauge, 30 and 32 inch, Weight, 7⅛ to 9 lbs.
10 Gauge, 30 and 32 inch, Weight, 8¼ to 11 lbs.
Drop of Stock, 2¾ to 3¼ in., Length of Stock, 13¾ to 14 ¼ in.

10 and 12 Gauge.

**97 Baker Hammer**—Best London Twist Barrels, Choke Bored, Imported Walnut Stock, Checkered Grip and Fore-end, Rubber Butt Plate, Pistol Grip, Hollow Matted Rib, Compensating Fore-end, Low Circular Rebounding Hammers..... Each, $30 00

## Lock of the Baker Hammer.



Full Size of Lock, the Simplest and Best used on a Hammer Gun, Best of Tool Steel, Oil Tempered, the rebounding is such that the Hammer meets with no resistance in striking the Firing Pin, no Rebounding Spring to overcome, No Miss Fires.

# Double Barrel Shot Guns.

## Baker Hammerless.

Grade Paragon.

Guaranteed for Nitro Powders.

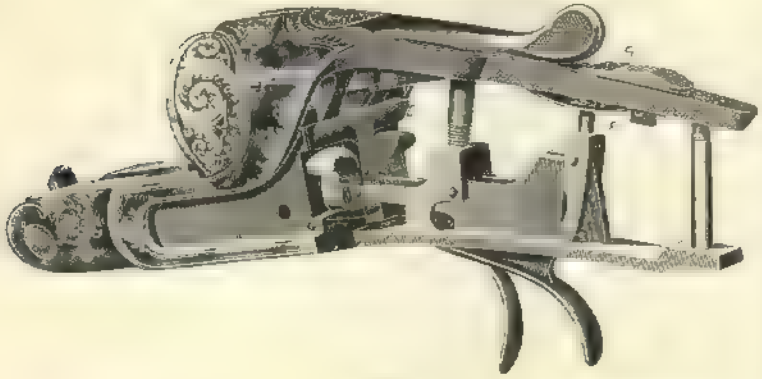
16 Gauge, 28 in., Weights 6½ to 7¼ lbs.
12 Gauge, 30 and 32 in., Weights 7¼ to 9¼ lbs.
10 Gauge, 30 and 32 in., Weights 8 to 10¼ lbs.

Fine four-blade Damascus barrels, choke-bored, fine English walnut stock and checkering, half or full pistol grip, rubber butt plate, checkered fore-end, fine scroll engraving, case-hardened frame and mountings, automatic safety block, patent fore-end snap, top strap, hollow matted extension rib with bite.

**Grade Paragon**—10, 12 and 16 Gauge . . . . . Each, $100 00

Drop of stock from heel, 2½ to 3⅛ in., length of stock, 13⅜ to 14½ in

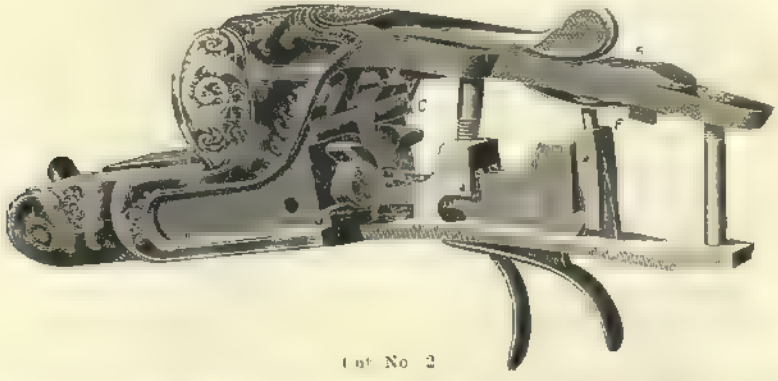
## The Safety Devices of the Baker Hammerless.



Cut No. 1

Cut No. 1 is three-fourths full size and shows the firing-pin block A in position of safety, being between the hammer and back of frame. In this position, should hammer fall, it would strike the block "A" and rest on it, preventing the hammer from reaching the firing-pin "B

Should sear or notch break while the firing-pin block "A" is in this position, or the hammers be jarred out of bent, the solid steel block "A" would receive the full force of the blow and prevent the hammer from coming in contact with the firing-pin "B." B—Firing-pin. C—Cocking bolt in the position it will assume while gun is opened, as in the act of putting shells into barrels. D—Triggers, the forward end of which operates the safety "A." F—Non-automatic safety, used to block the triggers. This cut shows this safety in position, blocking the triggers so they cannot be pulled off either accidentally or on purpose. When this safety "F" is in this position, it renders it impossible to pull the safety "A" out of position of safety. S—Thumb-piece on top of tang and which is used to operate the non-automatic safety "F." E—Top-lever spring.



Cut No. 2

Cut No. 2 is three fourths full size. A—Automatic Firing pin Safety Block, showing the position it is in while trigger is being pulled to discharge the gun. B—Firing pins. C—Cocking Lever. D—Triggers, the forward ends of which engage in and operate block safeties "A." F—Non-automatic Safety. S—Thumb piece on top of tang and which is used to operate the Non-automatic Safety "F." E—Top Lever Spring.

# Scales.

## Buffalo Scale Co's.

### Union, Single Beam.

Platform 10x13½ inches. Weighs ½ oz. to 32 lbs. in Scoop, and to 245 lbs. on Platform.

**No. 768**—Seamless Tin Scoop .. .. Each, $14 00
**No 770** " Brass " .. .. " 15 00
Shipping Weight, 60 lbs. Each.

### Union, Double Beam.

Platform 10x13½ inches. Weighs ½ oz to 32 lbs in Scoop, and to 245 lbs. on Platform.

**No 772**—Seamless Tin Scoop .. .. Each, $15 00
**No. 774** " Brass " .. .. " 16 00
Shipping Weight, 62 lbs. Each

### Improved Union, Single Beam.

**With Two Platforms.**

**No. 776**—Seamless Tin Scoop, Weighs ½ oz. to 32 lbs. in Scoop, and to 245 lbs. on Platform. Size of Platform, 10×13½ in .. Each, $14 50
Shipping Weight, 67 lbs.

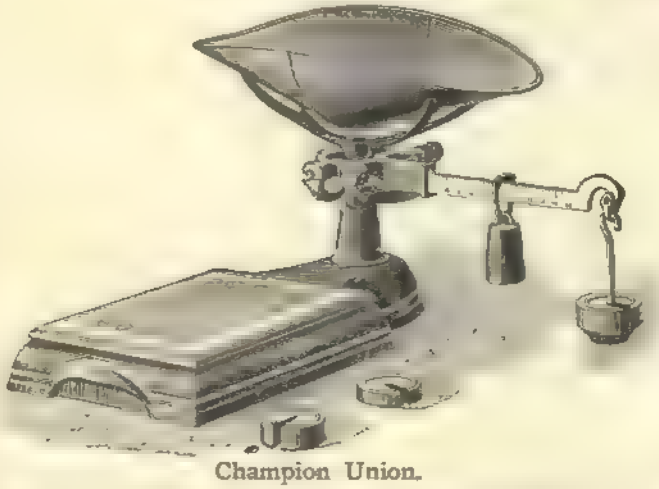
### Improved Union, Double Beam.

**With Two Platforms.**

**No. 780**—Seamless Tin Scoop, Weighs ½ oz. to 32 lbs. in Scoop and to 245 lbs on Platform, Size of Platform, 10×13½ in .. Each, $15 00
Shipping Weight, 68 lbs.

## Champion.

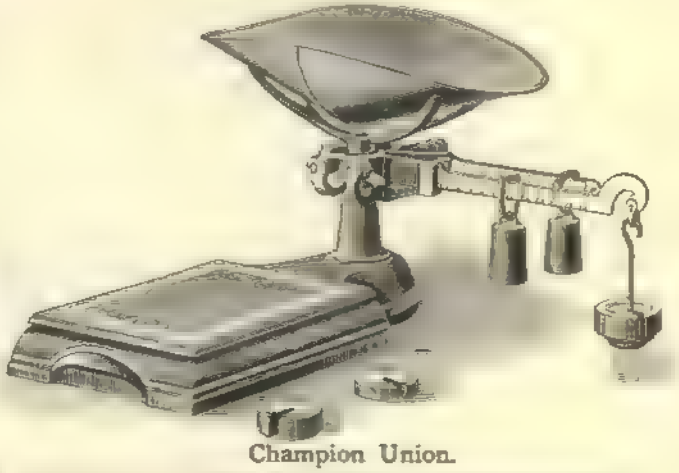
### Union, Single Beam.



**Champion Union.**

**Single Beam** Weighs ½ oz. to 240 lbs., Seamed Tin Scoop, Size of Platform, 10×13 in .. Each, $6 00
Shipping Weight, 58 lbs.

### Union, Double Beam.



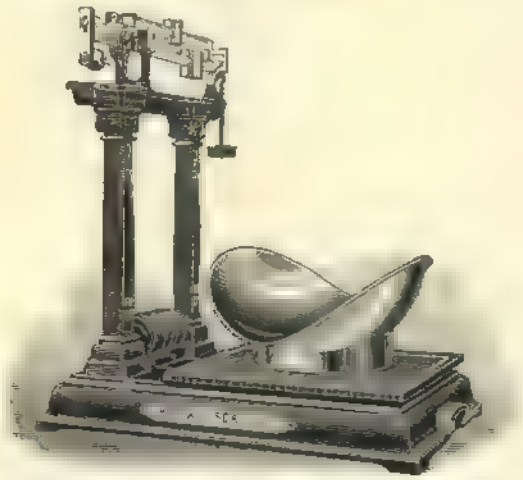
**Champion Union.**

**Double Beam**—Weighs ½ oz. to 240 lbs., Seamed Tin Scoop, Size of Platform, 10×13 in .. .. Each, $8 00
Shipping Weight, 62 lbs.

# Scales.

## Buffalo Scale Co's.

Niagara Counter.



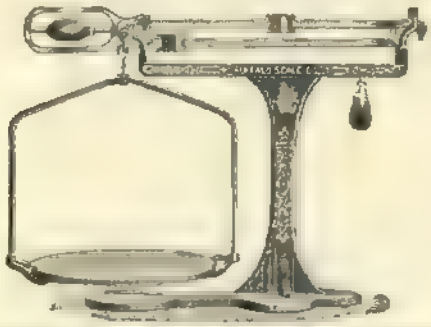
Size of Platform 14¼x12¾ inches. Height over all 24 inches. The Finish is Black and Gold with Nickel Plated Beam, Poises and Trig Loop. It has Patent Scoop Balancing Latch. The Beam is Short and Acts Quickly. The Upper Bar is Graduated to Weigh 5 lbs. by 1 oz. The Lower Bar 30 lbs. by ¼ lb.

**No. 797**—Weighs 250 lbs., by oz, Large Seamless Tin Scoop .....Each, $24 00

**No. 799**—Weighs 250 lbs., by oz. Large Seamless Brass Scoop.....Each, $25 00

Shipping Weight, 76 lbs. Each.

Boston Market, Marble Slab.



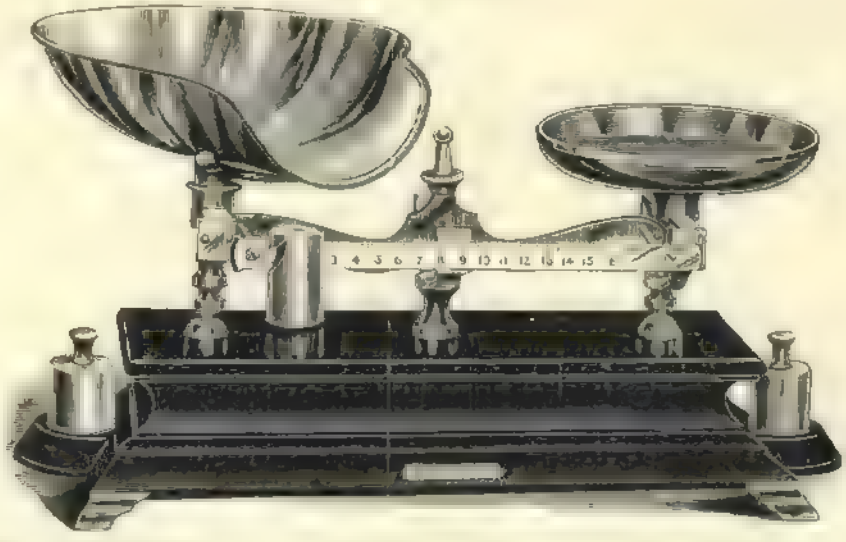
Bright Vermillion, Fancy Finish Double Beam, Marked on Both Sides, Nickel Plated Beam, Poises and Bow

**No. 680**—Weighs 30 lbs., by oz, with Marble Slab, 15 in. in Diameter. ....Each, $24 00

**No. 682**—Weighs 60 lbs., by oz, with Marble Slab, 15 in. in Diameter.....Each, $25 00

Shipping Weight, No. 680, 72 Lbs.; No. 682, 90 Lbs. Each.

## Confectioners'.



**Elegantly Finished, Upper Parts Brass, Nickel Plated Marbelized Base.**

**No. 694**—With Side Beam, Seamless Scoop.....Each, $25 00

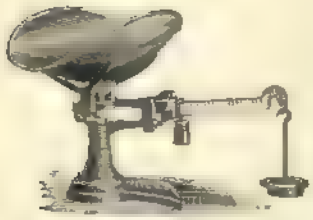
Scoop will Hold Three Pounds of Candy.

Shipping Weight, 40 lbs.

# Scales.

## Buffalo Scale Co's.

### Druggist.



**4 ozs. on the Beam Graduated to 1-16 oz.**

**No. 720** Weighs 1/16 oz. to 8 lbs., Seamless Tin Scoop .....Each, $11 00
Weight Boxed, 22 lbs

### Counter.

**Beam is in ½ oz. Graduations to 2 lbs.**

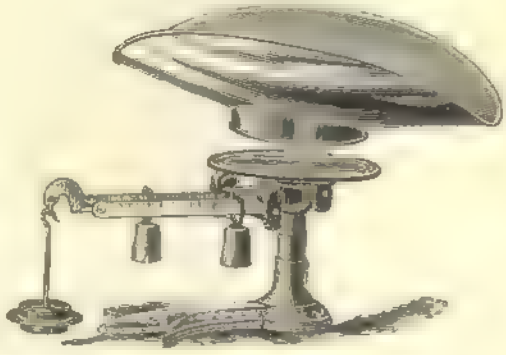
**No. 734** Weighs ½ oz. to 36 lbs., Seamless Tin Scoop.....Each, $10 00
Weight Boxed, 50 lbs

### Meat and Butter.

**Handsomely Finished in Black and Gold.**

**No. 674**—Weighs ½ oz. to 10 lbs., Double Beam, with Porcelain Plate, 10×10 in .....Each, $10 50
Weight Boxed, 50 lbs.

### Double Beam Grocer.



**Each Beam has a Capacity of 2 lbs. to ½ oz.**

**No. 756**—Weighs ½ oz. to 62 lbs., Brass Seamless Scoop, Double Beam.....Each, $14 50
Weight Boxed, 60 lbs

### Even Balance.

**Without Side Beam.**

**No. 616** Weighs ¼ oz. to 10 lbs., Seamless Tin Scoop.....Each, $7 00
Weight Boxed, 40 lbs.

### Even Balance, With Brass Side Beam.

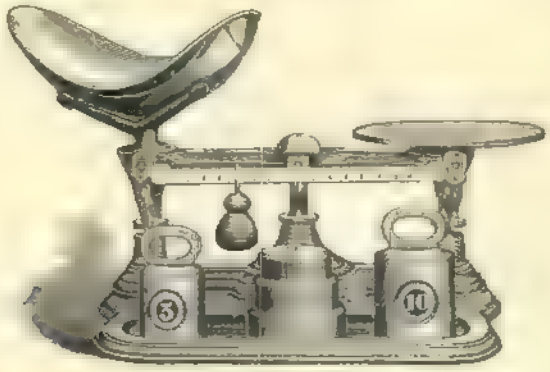
**With Brass Side Beam.**

**No. 620**—Weighs ¼ oz. to 4 lbs., Seamless Tin Scoop.....Each, $6 00
**No. 628**—Weighs ¼ oz. to 10 lbs., Seamless Tin Scoop.....Each, 8 00
Weight Boxed, No. 620, 25 lbs.; No. 628, 40 lbs.

# Scales.

## Buffalo Scale Co.'s

### Agate Bearing.



Nos. 516 to 540.

These Scales are Furnished with a Complete Set of Agate Bearings and are Perfection in both Design and Finish. Finished in Bronze. The Scoop, Fork and Plate Nickel Plated.

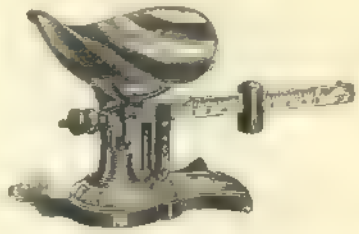
**No. 516**—Weighs ¼ oz. to 8 lbs., Side Beam, Complete with Nickel Plated Weights and Scale Platform, Each, $25 00
**No. 528** " ¼ " " 16 " " " " " " " " " " " " " " " " 32 00
**No. 540** " ¼ " " 26 " " " " " " " " " " " " " " " " 36 00

Weight Boxed, No. 516, 42 lbs.; No. 528, 50 lbs.; No. 540, 65 lbs.

### Candy.

No. 698.

### Tobacco.



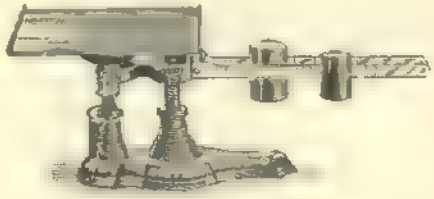
No. 704.

**No. 698**—Weighs ¼ oz. to 1 lb. on Beam, no Weights, Seamless Brass Scoop, Weight Boxed, 13 lbs., Each, $4 50
**No. 704** " ¼ " " 1 lb. " " " " " " " " " " 15 " " 5 50

## Postal.

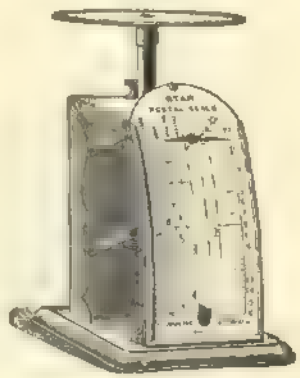
### Adopted by the U. S. Government.

Nos. 500 and 504.



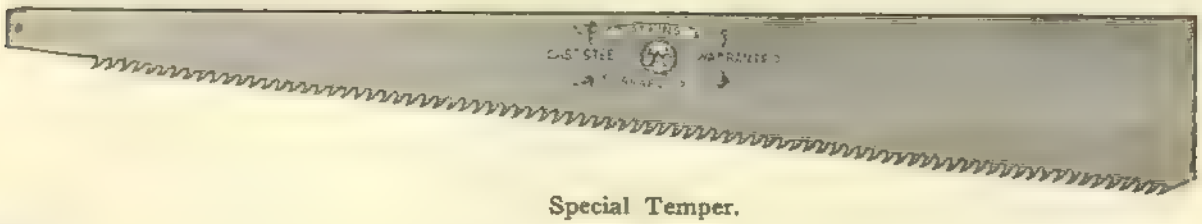
No. 508.

### Star.



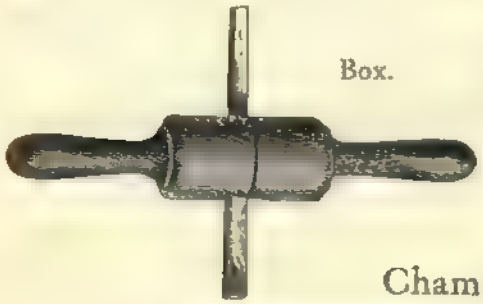
**No. 500**—Weighs ½ oz. to 9 ozs., Weight Boxed, 5 lbs . . . . . Each, $ 3 00
**No. 504** " ½ " " 34 " " " 12 " . . . . . " 6 00
**No. 508** " ½ " " 6 lbs. Double Beam, Weight Boxed, 20 lbs . . . . . " 12 00
**Star** " ½ " " 16 ozs. Gives Cost of Postage in Cents on Letters, Books, Packages and Newspapers, Weight Boxed, 6 ozs., all Nickel Plated . . . . . Each, 2 00

# Pit Saws.



Special Temper.

| | | | | | | |
|---|---|---|---|---|---|---|
| **Length, feet** | **6** | **7** | | | | |
| Width Butt, inch | 8 | 10 | | | | |
| Weight Each Net, lbs | 8½ | 12 | | | | |
| Each | $6 00 | 7 50 | | | | |



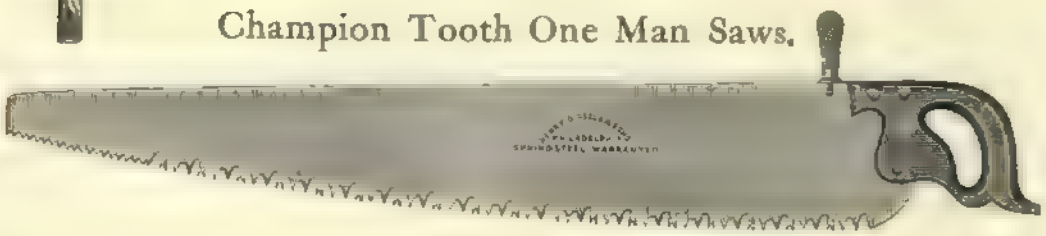
Box.

## Pit Saw Box and Tiller.

Tiller.

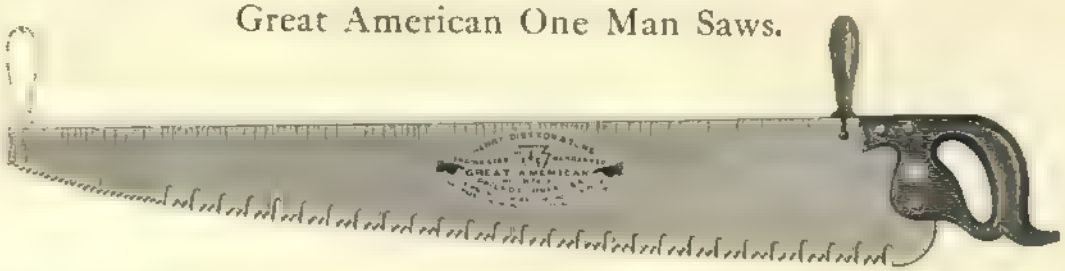
**Box**, Weight Each, 3 lbs.. ... Each, $1 00
**Tiller**, " " 5 " .. . " 1 25

## Champion Tooth One Man Saws.



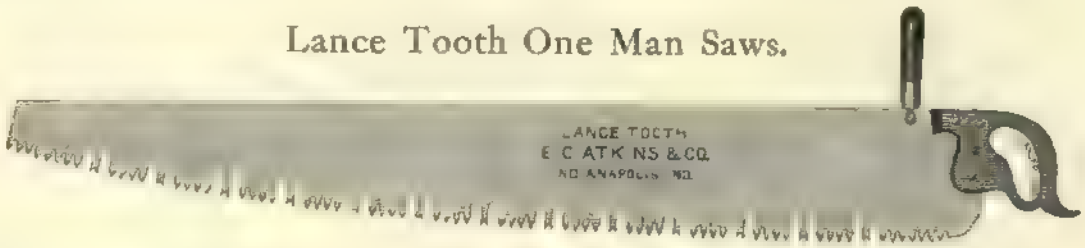
| | | | | | | |
|---|---|---|---|---|---|---|
| **Length, feet** | **3** | **3½** | **4** | **4½** | **5** | **5½** |
| Weight Each Net, lbs | 3¾ | 4¼ | 5½ | 6½ | 7 | 8 |
| Each | $2 25 | 2 60 | 3 00 | 3 35 | 3 70 | 4 10 |

## Great American One Man Saws.




| | | | | | | |
|---|---|---|---|---|---|---|
| **Length, feet** | **3** | **3½** | **4** | **4½** | **5** | **5½** |
| Weight Each Net, lbs | 4 | 4¾ | 5½ | 7 | 7½ | 8½ |
| Each | $2 55 | 2 75 | 3 25 | 3 65 | 4 10 | 4 55 |

## Lance Tooth One Man Saws.




| | | | | | | |
|---|---|---|---|---|---|---|
| **Length, feet** | **3** | **3½** | **4** | **4½** | **5** | **5½** |
| Weight Each Net, lbs | 3 | 4 | 5 | 6 | 7 | 7½ |
| Each | $2 55 | 2 98 | 3 40 | 3 82 | 4 25 | 4 68 |

# Cross Cut Saws.

## Star of the West Falling.

Segment Ground.

Can be used in small timber without bending, and will stand crowding and not buckle.

**12x17 Gauge, Five Gauges Thinner on Back than on Teeth.**

**Width of 7-ft. Blade at Center, 5¼ in. Width of 8½-ft. Blade at Center, 6 in.**

| **Length, feet** | **7** | **7½** | **8** | **8½** | **9** | **10** |
|---|---|---|---|---|---|---|
| Weight Each Net, lbs | 9 | 10 | 10¾ | 11½ | 12¼ | 14 |
| Each | $7 00 | 7 50 | 8 00 | 10 20 | 10 80 | 12 00 |

## The Howatson Falling.

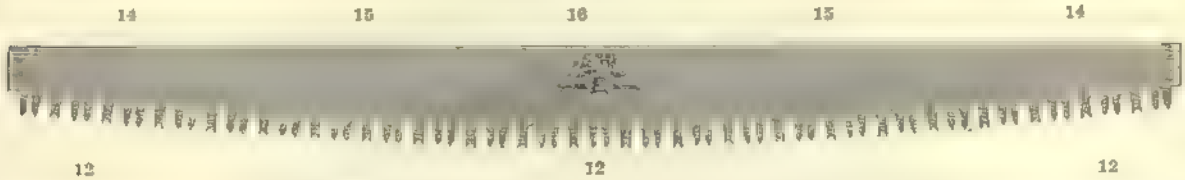
Segment Ground.

**12x17 Gauge, Five Gauges Thinner on Back than on Teeth.**

| **Length, feet** | **7** | **7½** | **8** | **8½** | **9** | **10** |
|---|---|---|---|---|---|---|
| Weight Each Net, lbs | 8 | 9 | 9½ | 10 | 10¾ | 12 |
| Each | $7 00 | 7 50 | 8 00 | 10 20 | 10 80 | 12 00 |

## Pacifico.

Segment Ground.

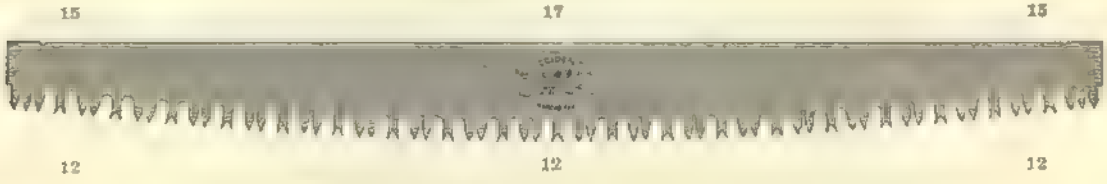



**12x16 Gauge. Extra Heavy for the Very Largest Timbers.**

| **Length, feet** | **6** | **6½** | **7** | **7½** |
|---|---|---|---|---|
| Weight Each Net, lbs. | 10 | 11 | 12½ | 13½ |
| Each | $6 60 | 7 15 | 7 70 | 8 25 |

## Occident.

Segment Ground.




**12x17 Gauge, Five Gauges Thinner on Back than on Teeth.**

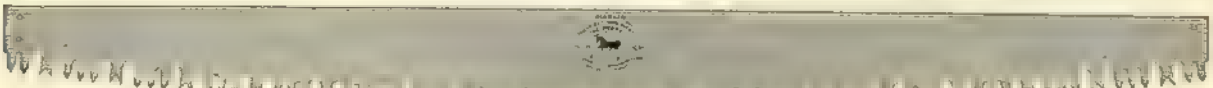
| **Length, feet** | **6** | **6½** | **7** | **7½** | **8** | **8½** | **9** |
|---|---|---|---|---|---|---|---|
| Weight Each Net, lbs | 9 | 10 | 11½ | 12½ | 13½ | 14½ | 15½ |
| Each | $6 00 | 6 50 | 7 00 | 7 50 | 8 00 | 10 20 | 10 80 |

Every Saw is carefully tested for temper, and fitted perfectly for use.

All the above Saws toothed to end of blade.

# Cross Cut Saws.

## Pacific Coast Dexter.



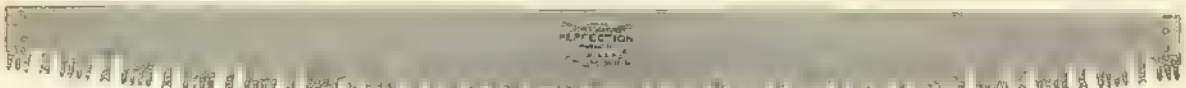
14x18 Gauge. Special Steel.

The patent by which this saw is protected consists of a depression of the face of the cutting teeth through the center from point to base, thus removing all friction while in use, giving strength and stiffness to the teeth, and increasing three-fold the durability of the "set." This saw never fails to give the best of satisfaction.

| **Length**, feet | **6** | **6½** | **7** | **7½** |
|---|---|---|---|---|
| Weight Each Net, lbs. | 7¾ | 9 | 10¾ | 12½ |
| Each | $4 80 | 5 20 | 5 60 | 6 00 |

## Perfection.

Segment Ground.



14 Gauge on Tooth Edge. 16 Gauge at Ends on Back Edge. 19 Gauge at Center on Back Edge.
Lance Tooth, Perforated.

| **Length**, feet | **6** | **6½** | **7** | **7½** | **8** |
|---|---|---|---|---|---|
| Weight Each Net, lbs. | 7 | 8 | 10½ | 11¾ | 12½ |
| Each | $4 80 | 5 20 | 5 60 | 6 00 | 6 40 |

## Victor.

Lance Tooth Perforated.

14x18 Gauge. Special Steel.

| **Length**, feet | **5** | **5½** | **6** | **6½** | **7** | **7½** |
|---|---|---|---|---|---|---|
| Weight Each Net, lbs. | 5½ | 5¾ | 7¼ | 9 | 11 | 12½ |
| Each | $3 00 | 3 30 | 3 60 | 3 90 | 4 20 | 4 50 |

## Tyee.

Segment Ground.

14 Gauge on Tooth Edge. 16 Gauge at Ends on Back Edge. 19 Gauge at Center on Back Edge.
Special Steel, Lance Tooth.

| **Length**, feet | **6** | **6½** | **7** | **7½** | **8** |
|---|---|---|---|---|---|
| Weight Each Net, lbs. | 7 | 8 | 10¼ | 10¾ | 12¼ |
| Each | $4 80 | 5 20 | 5 60 | 6 00 | 6 40 |

Every Saw is carefully tested for temper and fitted perfectly for use.
All the above Saws toothed to end of blade.

# Cross Cut Saws.

## Lance Tooth.

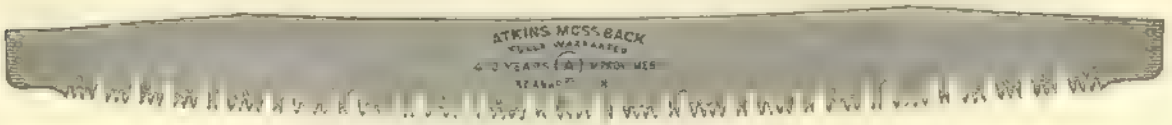
Not Perforated.

14x18 Gauge. Special Steel.

| **Length,** feet | **6** | **6½** | **7** | **7½** |
|---|---|---|---|---|
| Weight Each Net, lbs | 6½ | 8 | 9 | 10 |
| Each | $3 36 | 3 64 | 3 92 | 4 20 |

## Moss-Back.

Lance Tooth, Perforated.




14x18 Gauge. Special Nickel Steel.

| **Length,** feet | **6** | **6½** | **7** | **7½** |
|---|---|---|---|---|
| Weight Each Net, lbs | 6½ | 8 | 9 | 10 |
| Each | $4 20 | 4 55 | 4 90 | 5 25 |

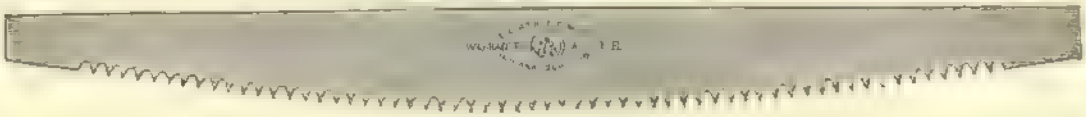
## Tuttle Tooth.

14x18 Gauge. Special Nickel Steel.

| **Length,** feet | **5** | **5½** | **6** | **6½** | **7** | **7½** |
|---|---|---|---|---|---|---|
| Weight Each Net, lbs | 5 | 6 | 7½ | 8½ | 10½ | 12½ |
| Each | $2 50 | 2 76 | 3 00 | 3 26 | 3 50 | 3 76 |

The above Saws are carefully tested for temper and fitted perfectly for use.
All the above Saws toothed to end of blade.

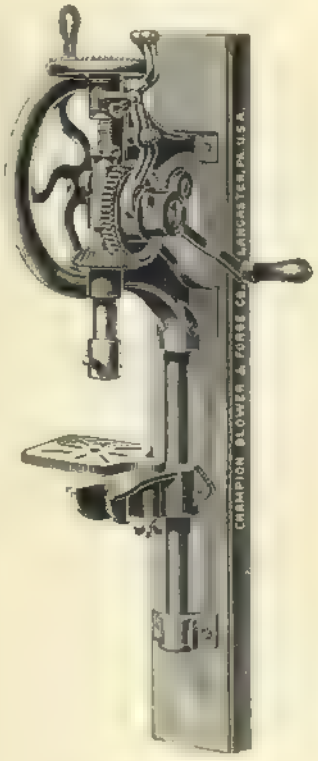
## Tenon.



| **Length,** feet | **3½** | **4** | **4½** | **5** | **5½** |
|---|---|---|---|---|---|
| Weight Each Net, lbs | 2½ | 3 | 4¾ | 5¼ | 6½ |
| Each | $2 00 | 2 00 | 2 26 | 2 50 | 2 76 |

# Self-Feeding Upright Drills.

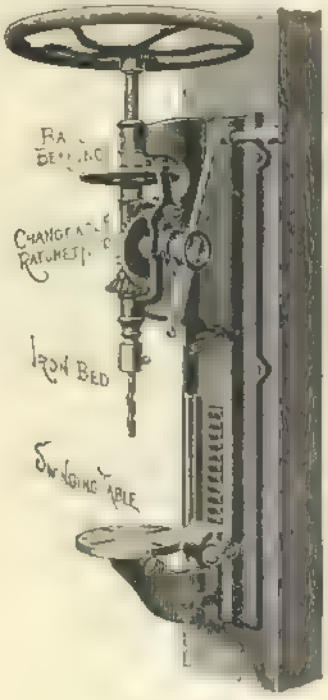
Champion.




No. 90

Green River.

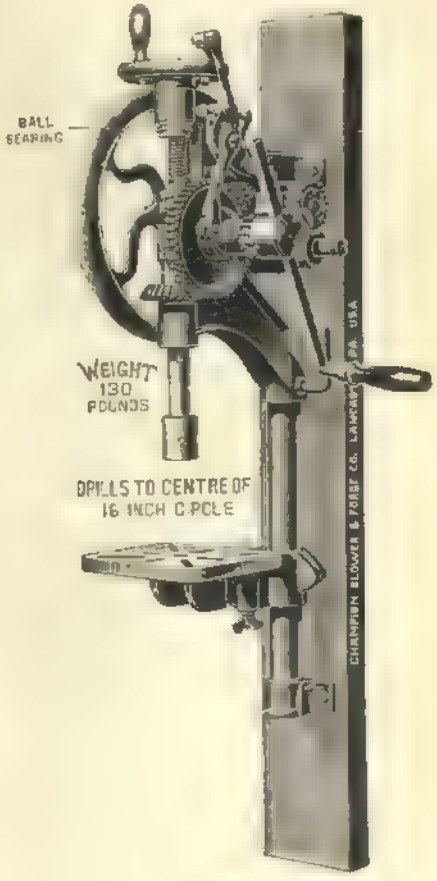
Ball-Bearing.




No. AA

Champion.

Ball-Bearing.




No. 100

## Champion.

**No. 90**—Drills from 1/64 to 1 in. hole. Drills to Center of a 14½ in. Circle, Spindle bored to take ⅝ in. Straight Shank Drills, Weight Each, 100 lbs ..... Each, $10 00

## Green River.

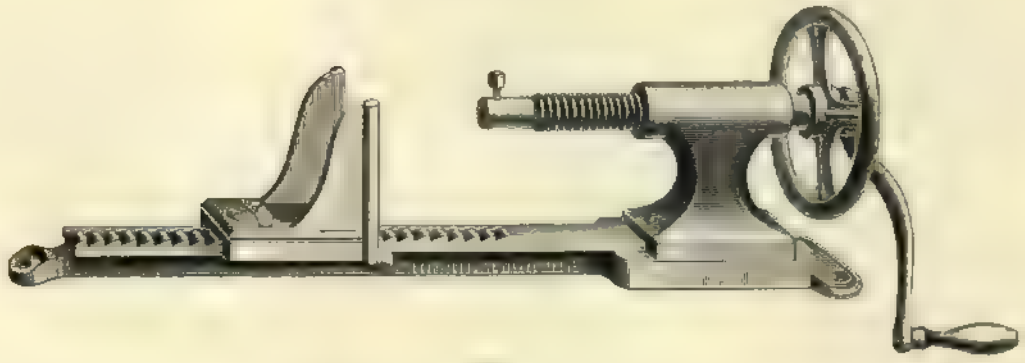
**No. AA**—Drills from 1/64 to 1 in. hole. Drills to Center of a 15 in. Circle, Spindle bored to take ⅝ in. Straight Shank Drills. Steel Ball bearings. The whole, including the Bed piece, is made of Iron and Steel, the Automatic Ratchet Feed is capable of several changes, the Table can be raised or lowered 14 in., Weight Boxed, 175 lbs ..... Each, $18 00

## Champion Ball-Bearing.

**No. 100**—Drills from 1/64 to 1 in. hole. Drills to Center of a 16 in. Circle. Spindle bored to take ⅝ in. Straight Shank Drills, Steel Ball bearings, Double Journal Bearings to all working parts. All Bearings are ground to a working fit out of the solid metal. Weight Each, 130 lbs. ..... Each, $13 50

# Horizontal Drills.

## Blacksmiths'.

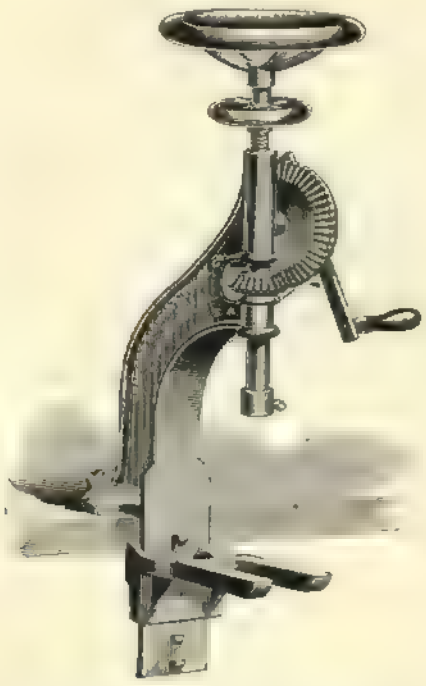


No. 5

**No. 5**—Japanned, 26 in. Long, for Round Shank Bits, Weight Each, 35 lbs. . . . . Each, $5 00

# The Champion Drills.

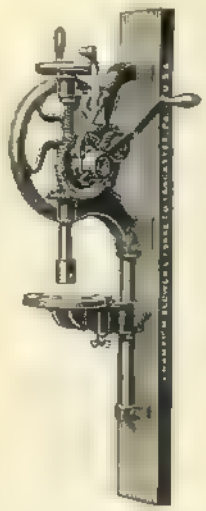
## Bench Drill.



Drills from 0 to ½ in. Hole. Length, 24 in. With each Drill is furnished a Chuck which attaches to Spindle and holds ⅜ in. Round Drills or Square Tapered Shank or Brace Drills up to ½ inch. Complete, with Extra Chuck . . . . . Each, $12 00

Weight Each, 34 lbs.

## Self-Feed Post Drill.

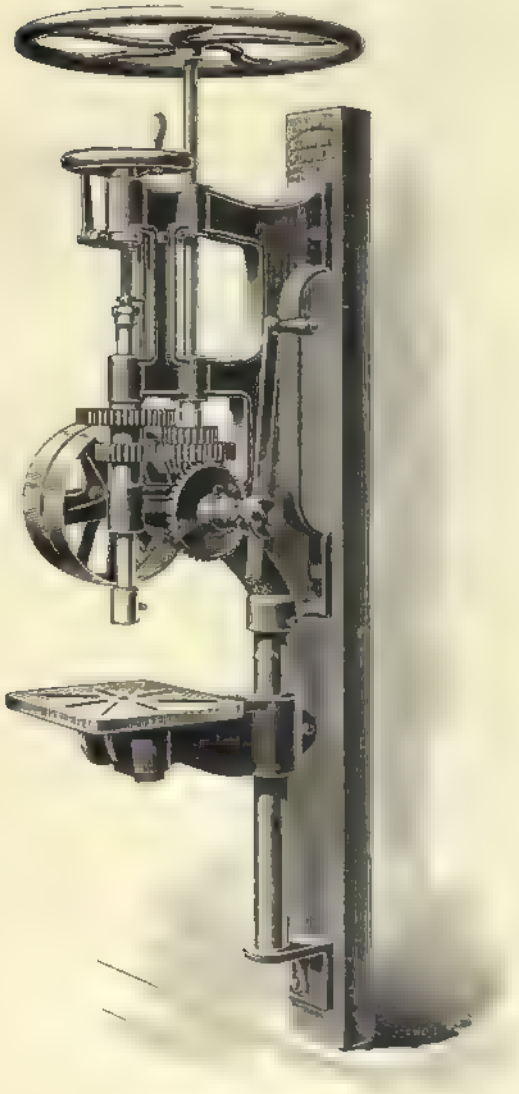


The Champion No. 101 Self-Feed Blacksmith Post Drill is made first-class, has a single speed, with back gear, also latest pattern self-feed. In every respect it is a very neat and well-made Drill. Its bearings are ground to a working fit from the solid metal. The table is slotted and planed off on the top side. Drills to the center of a 12 inch circle, and holes from 1/64 to ¾ inch. Diameter of spindle ⅞ inch, has an up and down run of 3 inches. Spindle bored to take ⅝ inch straight shank drills. . . . . Each, $8 00

Weight Each, 80 lbs.

# Self-Feed Upright Drills.

## Cut Geared.

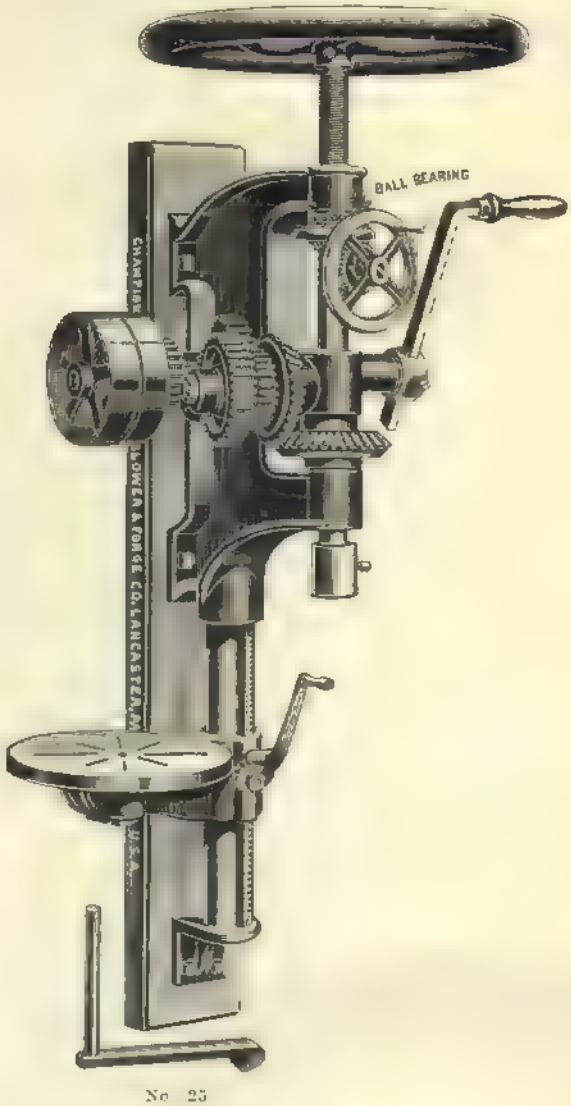


No. 7

**No. 7**—Drills from 0 to 1½ in. hole, Drills to center of a 21 in. circle, bored to take ⅝ in. Shank Drills, Cut Geared. A change from quick to slow speed for light or heavy work, made instantly by a change in the position of Gears. Is arranged for both Pulley and Hand Power. Pulleys are 10×2½ in., should ordinarily be speeded 175 to 180 revolutions per minute, Weight Each, 300 lbs.

| | | |
|---|---|---|
| Hand Power Only | Each, | $35 00 |
| Hand and Pulley Attachments | " | 39 00 |

## Ball-Bearing.



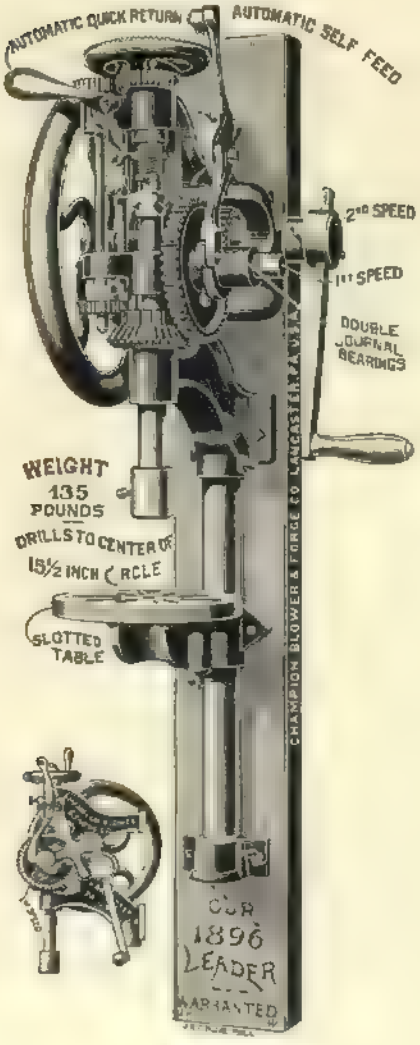

No. 25

**No. 25**—Drills from 0 to 1½ in. hole, Drills to center of a 22 in. circle, bored to take ⅝ in. Shank Drills, Cut Gears with Ball-bearings, Automatic Self Feed, it has a mechanical device for raising and lowering the table, also a wheel hanger. The Gears revolve in the same direction that the Crank is turned, the transmission of the power by the bevel gears direct to the drill spindle close to the drill bit. It is a perfect single or double back geared Drill which can be changed from one to the other in an instant, Weight Each, 325 lbs.

| | | |
|---|---|---|
| Hand Power Only | Each, | $40 00 |
| Hand and Pulley Attachment | " | 45 00 |

# Self-Feed Upright Drills.

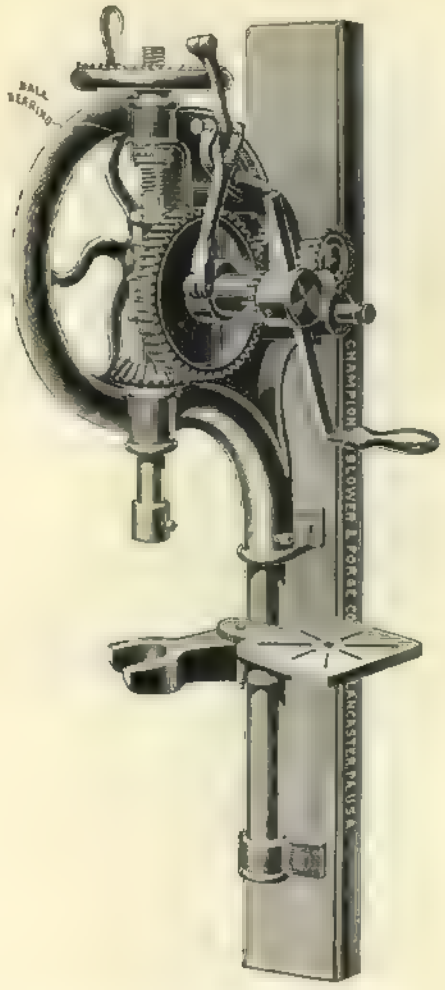
## Quick Return




No. 96.

**No. 96**—With Automatic Quick Return and Self-Feed, Drills from 1/64 to 1¼ in. holes, Drills to center of a 15½ in. circle, bored to take ⅝ in. Shank Drills. The Quick Return Lever is thrown into place while the Drill continues in motion, where it remains until the bit is raised out of the work and is again ready to start the next hole, Weight Each, 135 lbs. ..Each, $15 00

## Ball-Bearing.




No. 4.

**No. 4**—New Improved Three-Geared Ball-Bearing Self Feed, Drills from 1/64 to 1½ in. hole, Drills to center of an 18 in. circle. It is full back-geared with improved third-gear principle. It has two speeds with double journal bearing to all working parts. The bearings are all ground and polished out of solid metal. The table is slotted and planed off on top side. Diameter of the spindle 1¼ in. Spindle bored to take in ⅝ in. Straight Shank Drills, Weight Each, 200 lbs.....Each, $20 00

# Electric Push Buttons.

Size 2¼x5 in.

**No. 5164×A22¼**—Bronze Metal, Antique Copper Sand Finish ..... Per Dozen, $9 50

Size 2⅜x4⅝ in.

**No. 5334×A22¼**—Bronze Metal, Antique Copper Sand Finish ..... Per Dozen, $9 50

Size 2⅜x5⅝ in.

**No. 5254×A22¼**—Bronze Metal, Antique Copper Sand Finish ..... Per Dozen, $9 50

**No. 5254·22¼**—Antique Copper Finish ..... Per Dozen, 9 50

Size 2⅜x5⅝ in.

**No. 5484×20⅛**—Brass Metal, Oxidized Brass Finish..... Per Dozen, $9 50

Size 2⅜x5⅝ in.

**No. 5114·20¼** Cast Brass Metal, Antique Brass Finish ..... Each, $2 00

**No. 5114×20⅛**—Dull Brass..... " 2 00

Size 2⅜x5⅝ in.

**No. 5474×A22¼**—Bronze Metal, Antique Copper Sand Finish ..... Per Dozen, $9 50

Size 2⅛x4 in.

**No 1190 A22¼** Bronze Metal, Antique Copper Sand Finish ..... Per Dozen, $9 50

**No 1190 22¼**—Antique Copper Finish ..... Per Dozen, 9 50

Size 2¼x6 in.

**No. 1110**—Rustless Iron Finish..... Each, $1 75

Size 1⅞x6½ in.

**No. 5464**—Rustless Iron Finish..... Each, $1 75

All One in a Box with Screws.

# Door Bell and Lever.

Half Size Cuts.

P3086½

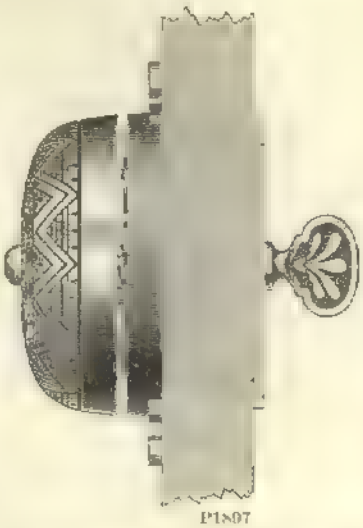
Lever.

P38

**No. P 3086½**—5 in Iron Bell, Bronze Plated, Complete with P 38 Bronze Plated Lever, Weight per Dozen, 18½ lbs Per Dozen, $3 00

One in a Box with Screws.

# Rotary Door Bell.



P1897

Turn.

P34

**No. 1897** 3½ in Iron Bell, Bronze Plated, Complete with P 34 Bronze Plated Turn, Weight per Dozen, 16 lbs .Per Dozen, $8 50

One in a Box with Screws

# New Departure Door Bells.

Two-thirds Size Cuts.

Rotary.

No. 191

**No. 191**—3½ in Nickel Plated Bronze Metal Bell, Bronze Metal Figured Turn Knob and Plate, Weight per Dozen, 15 lbs.... Per Dozen, $17 50

One in a Box with Screws.

Electric Ring.

No. 120.

No. 1.

**No. 120**—3½ in. Nickel Plated Bronze Metal Bell, with No. 1 Polished Bronze Metal Push Button, Weight per Dozen, 15 lbs .....Per Dozen, $21 00

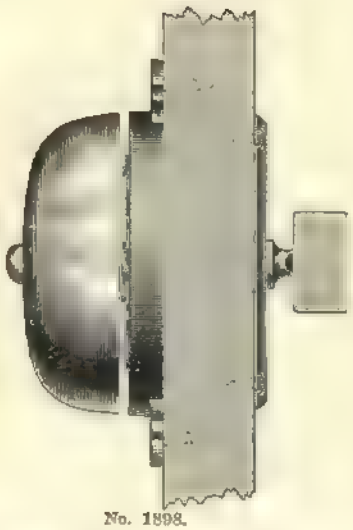
**No. 120**—3½ in. Bell, with No. 1×22¼ Antique Copper Finish Push Button, Weight per Dozen, 15 lbs .....Per Dozen, 21 00

Operated same as an Electric Bell. Are Wound by Turning Gong to the Right

One in a Box with Screws.

# Rotary Door Bells.

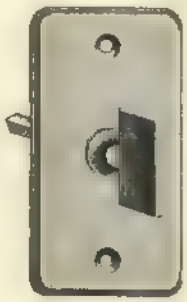
Half Size Cuts.



No. 1898.

## Bell Turns.

No. 35.



No. 32.

**No. 1898** 3½ in. Polished Bronze Metal Bell, Complete with No. 35 Bronze Metal Turn Weight per Dozen, 16 lbs..Per Dozen, $15 00

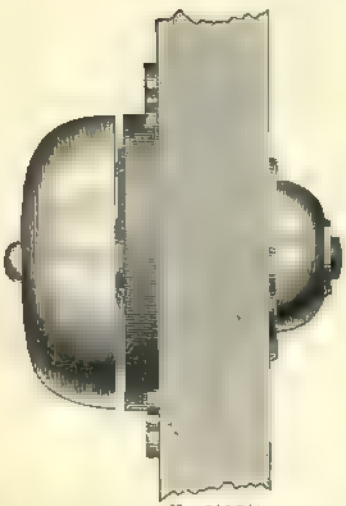
**No. 1898** 3½ in. Polished Bronze Metal Bell, Complete with No. R 32 Turn, Antique Copper Finish, Weight per Dozen, 16 lbs.. .....Per Dozen, 12 50

**No. 1898** 3½ in. Polished Bronze Metal Bell, Complete with No. SR 32 Turn, Antique Copper Sand Finish, Weight per Dozen, 16 lbs .....Per Dozen, 13 00

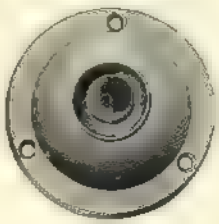
One in a Box with Screws.

# Electric-Ring Door Bells.

Half Size Cuts.



No. 1898½.



No. 118.

## Push Buttons.

No. 516.

No. 525.

**No. 1898½×118**—3½ in. Polished Bronze Metal Bell, Complete with No. 118×1 Polished Bronze Metal Push Button, Weight per Dozen, 16 lbs. .....Per Dozen, $12 50

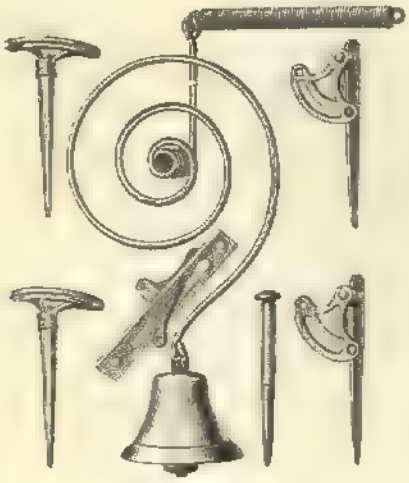
**No. 1898½×516**—3½ in. Polished Bronze Metal Bell, Complete with No. 516×A 22¼ Bronze Metal Antique Copper Sand Finish Turn .....Per Dozen, 18 00

**No. 1898½×525**—3½ in. Bell, Complete with No. 525×22¼ Bronze Metal Antique Copper Finish Push Button, Weight per Dozen, 16 lbs. .....Per Dozen, 17 50

**No. 1898½×525**—3½ in. Bell, Complete with No. 525×A 22¼ Antique Copper Sand Finish Push Button, Weight per Dozen, 16 lbs.....Per Dozen, 18 00

One Set in a Box with Screws.

# House Bells on Carriages.



Nos 204 and 207

**No. 204**—Polished Bell, Diameter of Mouth, 2⅝ in. Complete with Trimmings.....Per Dozen, $11 40
**No. 207**—Bell with Carriage and Spike only.. " " 7 30
Half Dozen in a Box. Weight per Dozen, 16 lbs.

# Alarm Door Bell.

No. 133

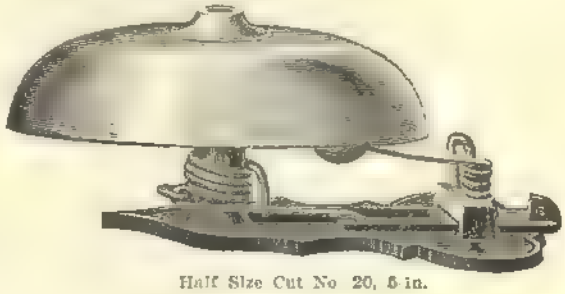
**No. 133**—Polished Bell, Diameter of Mouth, 2⅝ in., with Japanned Steel Spring..... ... Per Dozen, $13 50
Half Dozen in a Box. Weight per Dozen, 12 lbs.

# Alarm Bell.

Half Size Cut No. 125.

**No. 125**—4 in. Bronzed Steel Bell .....Per Dozen. $5 00
One in a Box. Weight per Dozen, 15 lbs.

# Abbe's Gongs.

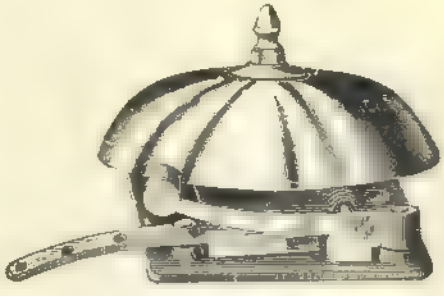


Half Size Cut No 20, 5 in.

**No. 20—Bronze Steel Bell.**

| Size, inch | 4 | 5 | 6 |
|---|---|---|---|
| Weight per Dozen, lbs | 16 | 20 | 25 |
| Per Dozen | $5 00 | 7 00 | 10 00 |

# Trip Gong Bells.



Half Size Cut, 4-in.

**Polished Bell Metal. All Above Eight Inches Have Wood Hammers.**

| Size, Inch | 3 | 4 | 5 | 6 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|---|
| Weight Each, lbs | 1 | 2 | 2½ | 3¼ | 6 | 9 | 15 |
| Each | $0 85 | 1 05 | 1 40 | 2 00 | 3 85 | 7 00 | 12 50 |

# COFFEE MILLS.

No. 212.

## ENTERPRISE.

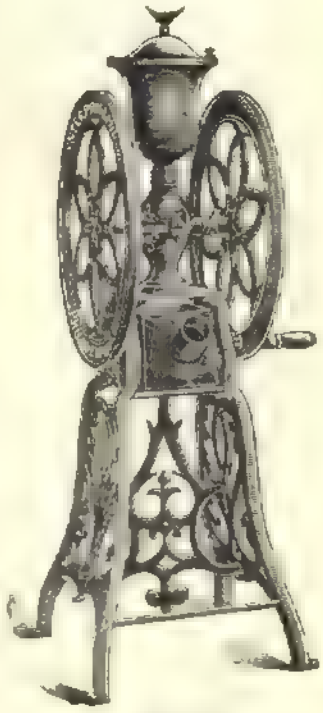
Highly Ornamented in Vermilion and Gold

Iron Hoppers.

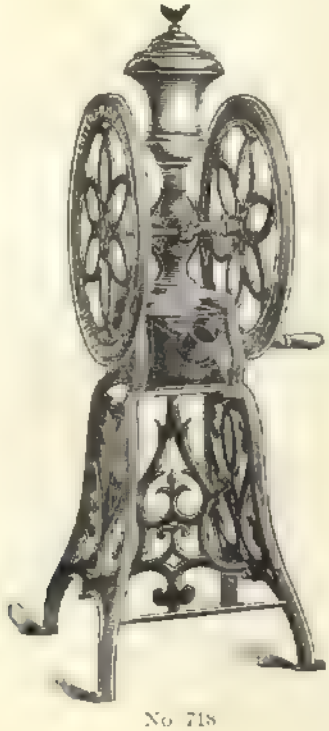
Can be regulated to grind fine or coarse while running.

| Nos. | 212 | 716 |
|---|---|---|
| Height, feet | 3¾ | 5 |
| Diameter of wheels, inch | 31 | 19 |
| Capacity of hopper, lbs. | 6½ | 3½ |
| Turns to grind a pound | 50 | 75 |
| Weight, lbs. | 211 | 170 |
| Each | $30.00 | 32.50 |

No. 212, not intended for grinding spices.



No. 716.



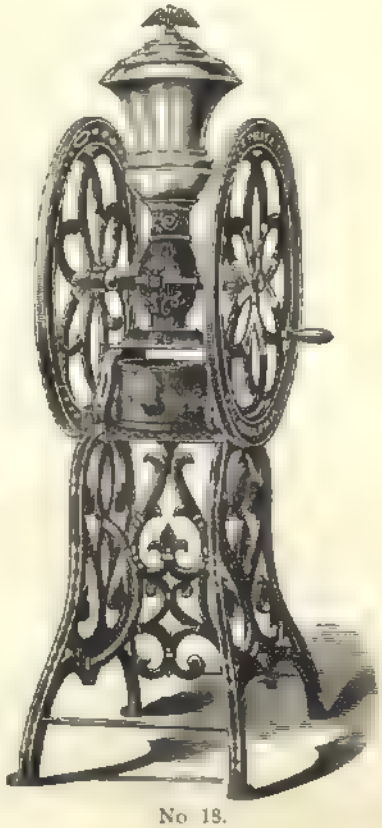
No. 718

Nickel-Plated Hoppers.

| Nos. | 718 | 18 |
|---|---|---|
| Height, feet | 5 | 5⅔ |
| Diameter of wheels, inch | 25 | 31 |
| Capacity of hopper, lbs. | 4 | 7½ |
| Turns to grind a pound | 75 | 50 |
| Weight, lbs. | 162 | 233 |
| Each | $35.00 | 45.00 |

All grinders, warranted equal to steel.

One in two crates and one box



No. 18.

# POWER COFFEE, SPICE AND DRUG MILLS.

## ENTERPRISE.

One-half Horse Power Required for General Purposes.

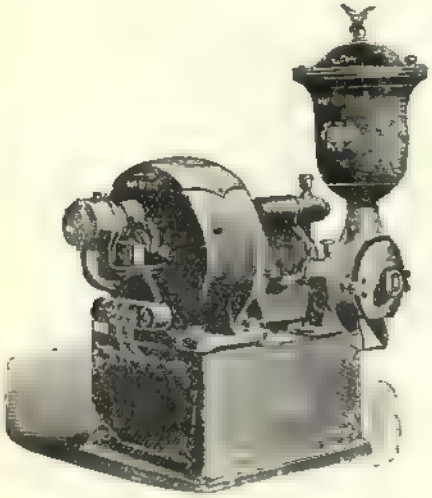
Adapted for farmers to grind wheat, corn, etc., by windmill or other power.

Height, 20 inches. Length, 15 inches. Weight, 60 lbs. Capacity of iron hopper, 5 pounds of coffee. Diameter of throat, 3 inches. Pulleys, 10x1¾ inches. We recommend 400 revolutions per minute.

This mill has a pulverizing capacity of ½ lb. per minute. Grinders warranted equal to steel.

**No. 950**.....Each, $15.00

One in crate.



# ELECTRICALLY DRIVEN COFFEE MILLS.

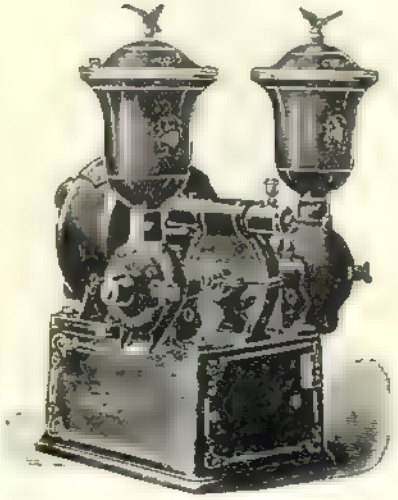
## ENTERPRISE.

One-half Horse Power.

Height, 30 inches. Length, 22 inches. Width, 19 inches. Weight, 250 pounds. Capacity of iron hopper, 4 pounds of coffee.

Grinding capacity: Fast speed, granulating, 3 pounds; slow speed, granulating, 2 pounds; pulverizing, ½ pound of coffee per minute. Can be regulated for fine or coarse grinding, while mill is running.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| *No. 8712—Direct current motor, 115 volts | | | | | | | | Each, | $120 00 |
| Direct | " | " | 230 | " | | | | " | 120 00 |
| Direct | " | " | 500 | " | | | | " | 120 00 |
| Alternating current motor, 60 cycles, 110 volts. | | | | | | Two phase | | " | 110 00 |
| Alternating | " | " | 60 | " | 220 | " | " | " | 110 00 |
| Alternating | " | " | 60 | " | 110 | " | Three | " | 110 00 |
| Alternating | " | " | 60 | " | 220 | " | " | " | 110 00 |
| Alternating | " | " | 60 | " | 110 | " | Single | " | 150 00 |
| Alternating | " | " | 60 | " | 220 | " | " | " | 150 00 |
| Alternating | " | " | 125 | " | 104 | " | " | " | 165 00 |
| Alternating | " | " | 125 | " | 208 | " | " | " | 165 00 |
| Nickel-plated hopper | | | | | | | | Extra, | 2 50 |
| Extended tube | | | | | | | | " | 5 00 |



Three-quarters Horse Power.

Height, 30 inches. Length, 22 inches. Width, 24 inches. Weight, 285 lbs. Capacity of iron hoppers, 4 pounds of coffee.

One mill fitted with grinders for granulating, the other for pulverizing.

Grinding capacity: Fast speed, granulating, 3 pounds; slow speed, granulating, 2 pounds; pulverizing, ½ pound of coffee per minute. Can be regulated for fine or coarse grinding, while mill is running. Both mills can be used at the same time, but on slow speed only.

| | | | | | | |
|---|---|---|---|---|---|---|
| *No. 08712—Direct current motor, 115 volts | | | | | Each, | $140 00 |
| Direct | " | " | 230 | " | " | 140 00 |
| Direct | " | " | 500 | " | " | 140 00 |
| Nickel-plated hoppers | | | | | Extra | 5.00 |
| Extended tubes | | | | | " | 10.00 |

For further information, send for catalog.

*For shipment from factory only.

# COFFEE AND SPICE MILLS.

## ENTERPRISE.

No. 00

Japanned

| Nos. | 00 | 0 |
|---|---|---|
| Grinds per minute, lbs | ⅜ | ⅞ |
| Capacity of hopper, " | ¼ | ¼ |
| Weight, lbs | 6 | 6 |
| Each | $1 25 | 1 50 |

Twelve in case

No. 0

No. 1.

Japanned

| Nos. | 1 | 450 |
|---|---|---|
| Grinds per minute, lbs | ¼ | ¼ |
| Capacity of hopper, " | ⅝ | 1 |
| Weight, lbs | 10 | 19½ |
| Each | $2 25 | 4 50 |

No. 1, twelve; No. 450, three or six in case.

No. 450.

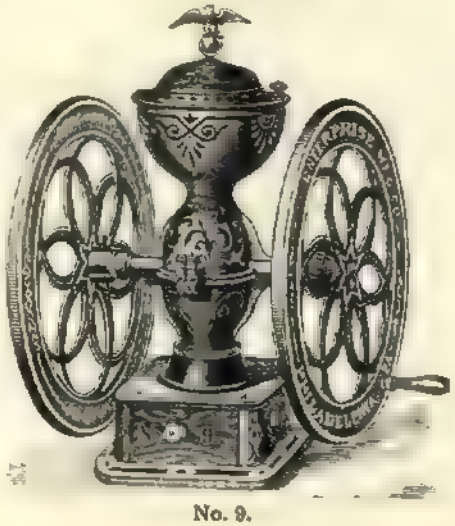
Highly Ornamented in Vermilion and Gold.

Nos. 2 to 7.

| Nos. | 2 | 3 | 5 |
|---|---|---|---|
| Diameter of wheels, inch | 8½ | 10¾ | 12½ |
| Grinds per minute, lbs | ½ | ½ | ¾ |
| Capacity of hopper, " | ¼ | ½ | ¾ |
| Weight, lbs | 15 | 22½ | 36 |
| Each | $3.75 | 5.50 | 8 00 |

| Nos. | 7 | 9 |
|---|---|---|
| Diameter of wheels, inch | 17 | 19½ |
| Grinds per minute, lbs | 1 (80 turns) | 1 (50 turns) |
| Capacity of hopper, " | 1¾ | 3 |
| Weight, lbs | 62 | 107 |
| Each | $11 00 | 16 00 |

No 2, six; No. 3, three or six; No. 5, three in case; Nos. 7 and 9, one in crate.



No. 9.

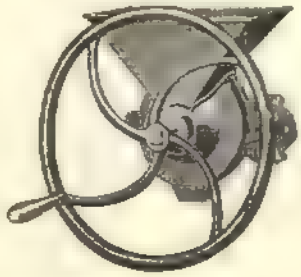
PACIFIC HARDWARE & STEEL COMPANY

# COFFEE MILLS.

## REGAL.

No. 44

## PLANTATION.

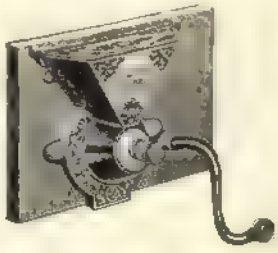


No. 3

**No. 44**—Steel hopper. Black enamel finish. 1-lb. air-tight canister. Weight, 50 lbs. ..Per dozen, $ 7 00
**No. 3**—All iron. Japanned hopper, 10x5½x3 inches. Weight, 480 lbs. " 63 00

No. 44, one-half dozen, No. 3, one-sixth dozen in case.

## PARKER'S.



Nos. 350 to 370

Bronzed Iron Hopper on Board

| Nos. | 350 | 360 | 370 |
|---|---|---|---|
| Board, inch | 8¼x6 | 8¼x6½ | 10⅛x7⅜ |
| Weight, lbs. | 56 | 62 | 80 |
| Per dozen. | $8.00 | 9.00 | 11.00 |

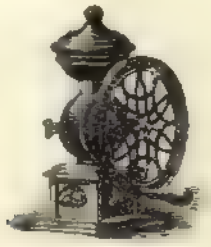
Nos. 50 to 90

Japanned Sheet Steel Hopper on Board

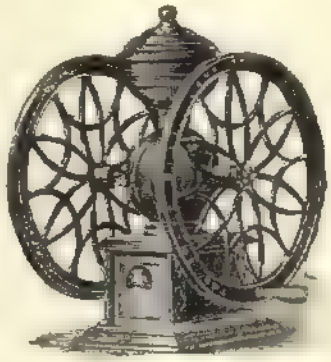
| Nos. | 50 | 60 | 70 | 80 | 90 |
|---|---|---|---|---|---|
| Board, inch | 6x8 | 6½x8¼ | 7¼x10¼ | 9x12 | 11¼x14¼ |
| Weight, lbs. | 30 | 36 | 45 | 78 | 96 |
| Per dozen | $7 50 | 8 50 | 10 00 | 16 00 | 26 00 |

One-half dozen in case.

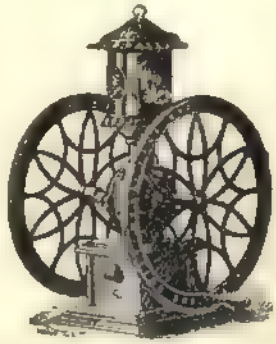
## SWIFT'S.



No. 12



Nos. 13, 14 and 140.



Nos. 15, 16 and 18.

Highly Ornamented in Vermilion and Gold.

| Nos. | 12 | 13 | 14 | 140 | 15 | 16 | 18 |
|---|---|---|---|---|---|---|---|
| Fly wheels, inch | 9 | 12 | 15 | 17 | 20 | 24 | 30 |
| Grinds per minute, lbs | ½ | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 |
| Weight, lbs. | 16 | 39 | 60 | 68 | 90 | 157 | 242 |
| Each | $2 50 | 5 00 | 8 00 | 12 00 | 15 00 | 20 00 | 28 00 |

No. 12, three; balance, one in crate.

# COFFEE MILLS.

No. 212.

## ENTERPRISE.

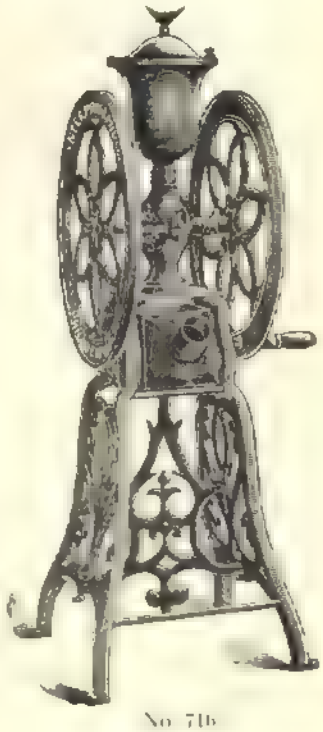
Highly Ornamented in Vermilion and Gold

Iron Hoppers.

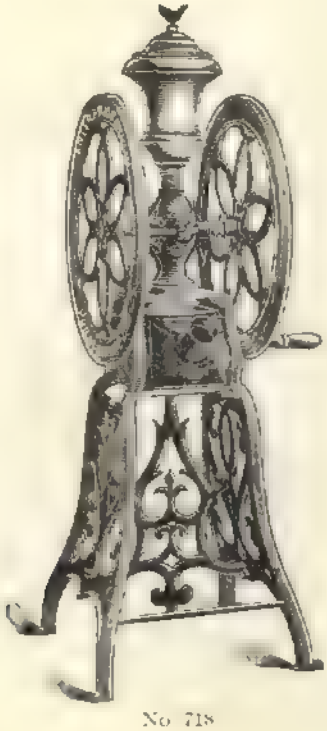
Can be regulated to grind fine or coarse while running.

| Nos. | 212 | 716 |
|---|---|---|
| Height, feet | 4¾ | 5 |
| Diameter of wheels, inch | 15 | 19 |
| Capacity of hopper, lbs. | 6½ | 3½ |
| Turns to grind a pound | 50 | 75 |
| Weight, lbs | 211 | 170 |
| Each | $30.00 | 32.50 |

No. 212, not intended for grinding spices.



No. 716



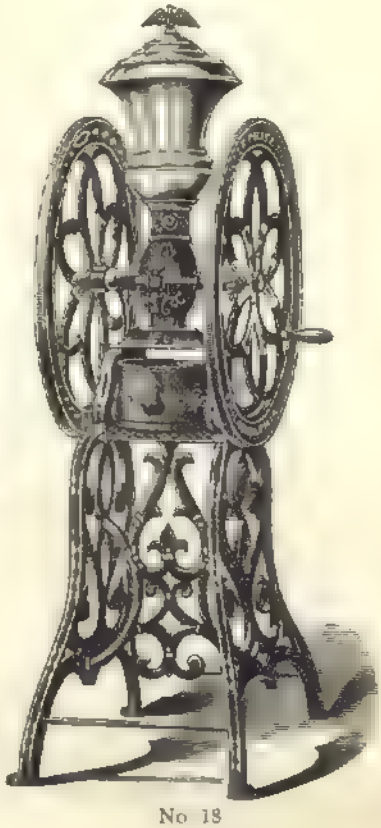
No. 718

Nickel-Plated Hoppers.

| Nos. | 718 | 18 |
|---|---|---|
| Height, feet | 5 | 5²₃ |
| Diameter of wheels, inch | 25 | 31 |
| Capacity of hopper, lbs | 4 | 7½ |
| Turns to grind a pound | 75 | 50 |
| Weight, lbs | 162 | 233 |
| Each | $35.00 | 45.00 |

All grinders, warranted equal to steel.

One in two crates and one box.



No. 18

# COFFEE AND SPICE MILLS.

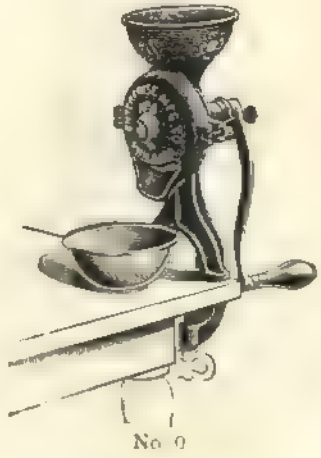
## ENTERPRISE.

No. 00.

Japanned

| Nos. | 00 | 0 |
|---|---|---|
| Grinds per minute, lbs | ⅜ | ⅜ |
| Capacity of hopper, " | ¼ | ¼ |
| Weight, lbs. | 6 | 6 |
| Each | $1.25 | 1.50 |

Twelve in case



No. 0

No. 1.

Japanned

| Nos. | 1 | 450 |
|---|---|---|
| Grinds per minute, lbs | ¼ | ¼ |
| Capacity of hopper, " | ¼ | 1 |
| Weight, lbs | 10 | 19½ |
| Each | $2.25 | 4.50 |

No. 1, twelve; No. 450, three or six in case.

No. 450.

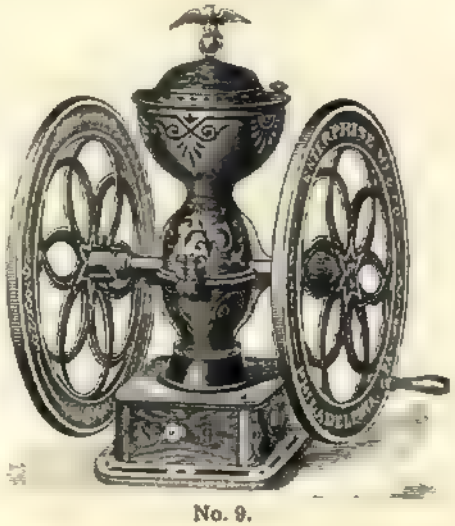
Highly Ornamented in Vermilion and Gold.

| Nos. | 2 | 3 | 5 |
|---|---|---|---|
| Diameter of wheels, inch | 8¼ | 10½ | 12½ |
| Grinds per minute, lbs. | ½ | ½ | ¼ |
| Capacity of hopper, " | ¼ | ¼ | ¼ |
| Weight, lbs. | 15 | 22½ | 36 |
| Each | $3.75 | 5.50 | 8.00 |

| Nos. | 7 | 9 |
|---|---|---|
| Diameter of wheels, inch | 17 | 19½ |
| Grinds per minute, lbs. | 1 (80 turns) | 1 (50 turns) |
| Capacity of hopper, " | 1¾ | 3 |
| Weight, lbs. | 62 | 107 |
| Each | $11.00 | 16.00 |

No. 2, six; No. 3, three or six; No. 5, three in case; Nos. 7 and 9, one in crate.

Nos. 2 to 7.



No. 9.

PACIFIC HARDWARE & STEEL COMPANY

# COFFEE MILLS.

## REGAL.

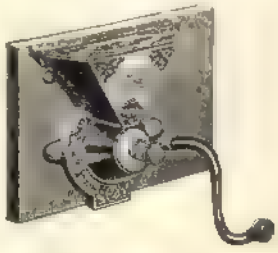
No. 44

## PLANTATION.

No. 3

**No. 44**—Steel hopper. Black enamel finish. 1 lb. air-tight container. Weight, 50 lbs. ..Per dozen, $ 7 00
**No. 3**—All iron. Japanned hopper, 10x6½x3 inches. Weight, 180 lbs. " 63 00
No. 44, one-half dozen; No. 3, one-sixth dozen in case.

## PARKER'S.



Nos. 350 to 370.

Bronzed Iron Hopper on Board

| Nos. | 350 | 360 | 370 |
|---|---|---|---|
| Board, inch | 8¼x6 | 8¾x6½ | 10½x7⅜ |
| Weight, lbs. | 56 | 62 | 80 |
| Per dozen. | $8.00 | 9.00 | 21.00 |

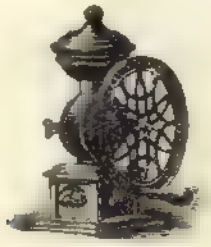
Nos. 50 to 90

Japanned Sheet Steel Hopper on Board

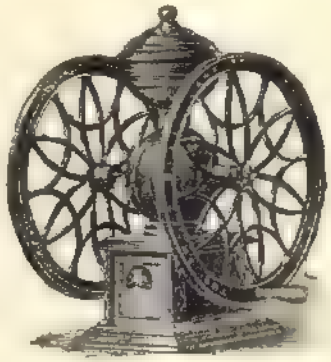
| Nos. | 50 | 60 | 70 | 80 | 90 |
|---|---|---|---|---|---|
| Board, inch | 6x8 | 6½x8½ | 7½x10½ | 9x12 | 11½x14¼ |
| Weight, lbs. | 30 | 36 | 45 | 78 | 96 |
| Per dozen | $7 50 | 8.50 | 10 00 | 16 00 | 26.00 |

One-half dozen in case

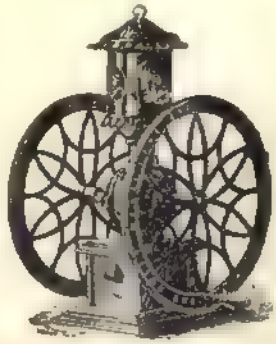
## SWIFT'S.



No 12



Nos. 13, 14 and 140.

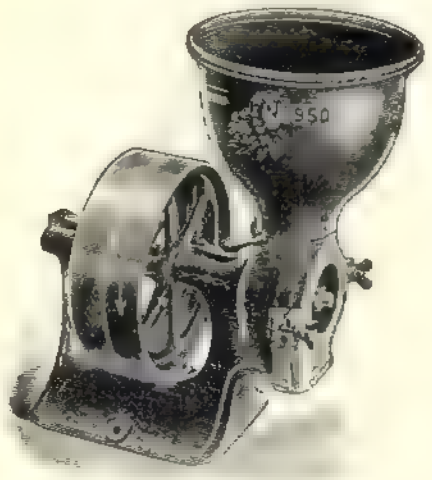


Nos. 15, 16 and 18.

Highly Ornamented in Vermilion and Gold.

| Nos. | 12 | 13 | 14 | 140 | 15 | 16 | 18 |
|---|---|---|---|---|---|---|---|
| Fly wheels, inch | 9 | 12 | 15 | 17 | 20 | 24 | 30 |
| Grinds per minute lbs. | ½ | ¾ | 1 | 1¼ | 1½ | 1¾ | 2 |
| Weight, lbs. | 16 | 39 | 60 | 88 | 90 | 157 | 242 |
| Each | $2 50 | 5 00 | 8 00 | 12 00 | 15 00 | 20 00 | 28.00 |

No 12, three; balance one in crate.




# POWER COFFEE, SPICE AND DRUG MILLS.

## ENTERPRISE.

One-half Horse Power Required for General Purposes.

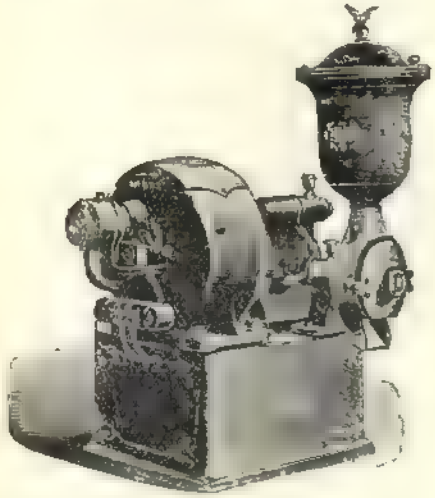
Adapted for farmers to grind wheat, corn, etc., by windmill or other power.

Height, 20 inches. Length, 15 inches. Weight, 60 lbs. Capacity of iron hopper, 5 pounds of coffee. Diameter of throat, 3 inches. Pulleys, 10x1¼ inches. We recommend 400 revolutions per minute.

This mill has a pulverizing capacity of ½ lb. per minute. Grinders warranted equal to steel.

**No. 950** ..... Each, $15.00

One in crate



# ELECTRICALLY DRIVEN COFFEE MILLS.

## ENTERPRISE.

One-half Horse Power.

Height, 30 inches. Length, 22 inches. Width, 19 inches. Weight, 250 pounds. Capacity of iron hopper, 4 pounds of coffee.

Grinding capacity: Fast speed, granulating, 3 pounds; slow speed, granulating, 2 pounds; pulverizing, ½ pound of coffee per minute. Can be regulated for fine or coarse grinding, while mill is running

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| *No. 8712—Direct current motor, 115 volts | | | | | | | Each, | $120 00 |
| Direct | " | " | 230 | " | | | " | 120 00 |
| Direct | " | " | 500 | " | | | " | 120 00 |
| Alternating current motor | | | 60 | cycles, | 110 | volts | Two phase " | 110 00 |
| Alternating | " | " | 60 | " | 220 | " | " " " | 110 00 |
| Alternating | " | " | 60 | " | 10 | " | Three " | 110 00 |
| Alternating | " | " | 60 | " | 220 | " | " " " | 110 00 |
| Alternating | " | " | 60 | " | 110 | " | Single " | 150 00 |
| Alternating | " | " | 60 | " | 220 | " | " " " | 150 00 |
| Alternating | " | " | 125 | " | 104 | " | " " " | 165 00 |
| Alternating | " | " | 125 | " | 208 | " | " " " | 165 00 |
| Nickel-plated hopper | | | | | | | Extra, | 2 50 |
| Extended tube | | | | | | | " | 5 00 |

Three-quarters Horse Power.

Height, 30 inches. Length, 22 inches. Width, 24 inches. Weight, 285 lbs. Capacity of iron hoppers, 4 pounds of coffee

One mill fitted with grinders for granulating, the other for pulverizing.

Grinding capacity: Fast speed, granulating, 3 pounds; slow speed, granulating, 2 pounds; pulverizing, ½ pound of coffee per minute. Can be regulated for fine or coarse grinding, while mill is running. Both mills can be used at the same time, but on slow speed only.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *No. 08712—Direct current motor, 115 volts | | | | | | Each, | $140.00 |
| Direct | " | " | 230 | " | | " | 140 00 |
| Direct | " | " | 500 | " | | " | 140 00 |
| Nickel-plated hoppers | | | | | | Extra, | 5.00 |
| Extended tubes | | | | | | " | 10.00 |

For further information, send for catalog.

*For shipment from factory only.

# Pocket Knives.

## George Wostenholm's IXL.

Full Size Cuts.

No. 2137

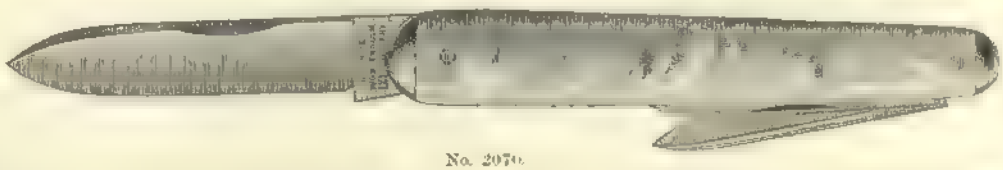
**No. 2137**—3 in., Two Blades, English Patent Stag Handle, Brass Lined, German Silver Bolster and Cap, Full Crocus Finish ..... Per Dozen, $19 00

No. 2118

**No. 2118**—3⅛ in., Two Blades, Pearl Handle, Brass Lined, German Silver Tip Bolster and Cap, Crocus Finish. ..... Per Dozen, $28 00

No. 2061

**No. 2061**—3½ in., Three Blades, Stag Handle, Brass Lined, Polished Blades ..... Per Dozen, $22 00



No. 2070

**No. 2070**—3⅜ in., Three Blades, Pearl Handle, Brass Lined, German Silver Tip Bolster and Cap, Full Crocus Finish ..... Per Dozen, $36 00

No. 2071

**No. 2071**—3¾ in., Three Blades, Stag Handle, Brass Lined, German Silver Tip Bolster and Cap, Full Crocus Finish ..... Per Dozen, $28 00

All Half Dozen in a Box.

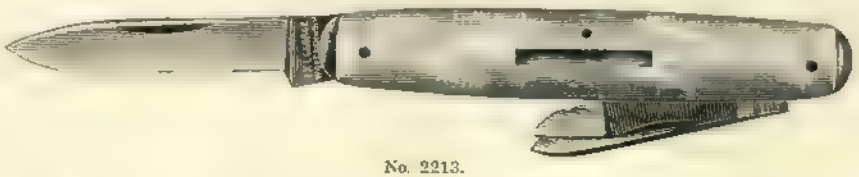
# Pocket Knives.

## George Wostenholm's IXL.

Full Size Cuts.

No. 15628.

**No. 15628**—2¼ in., Three Blades, Pearl Handle, Brass Lined, File Blade on Back, Full Crocus Finish, ..... Per Dozen, $32 00



No. 2213.

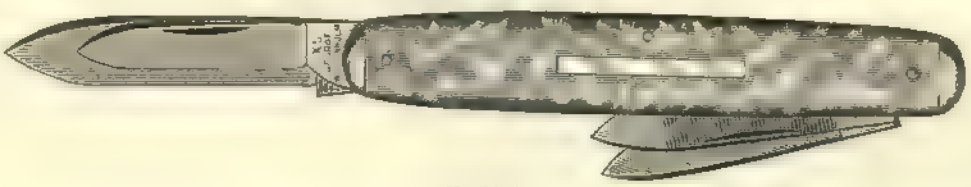
**No. 2213**—3⅛ in , Three Blades, Pearl Handle, Brass Lined. German Silver Tips, Full Crocus Finish, ..... Per Dozen, $40 00

No. 13401.

**No. 13401**—3¼ in., Three Blades, Pearl Handle, Brass Lined, German Silver Bolster and Cap, Half Crocus Finish..... ..... Per Dozen, $36 00

No. 14160

**No. 14160**—3½ in., Four Blades, Shell Handle, Brass Lined, Full Crocus Finish.... .... . . .Per Dozen, $42 00



No. 2216.

**No. 2216**—3⅜ in , Four Blades, Pearl Handle, Brass Lined, German Silver Tips, Full Crocus Finish, . ..... ..... ..... ..... . . . . . .Per Dozen, $44 00

All Half Dozen in a Box.

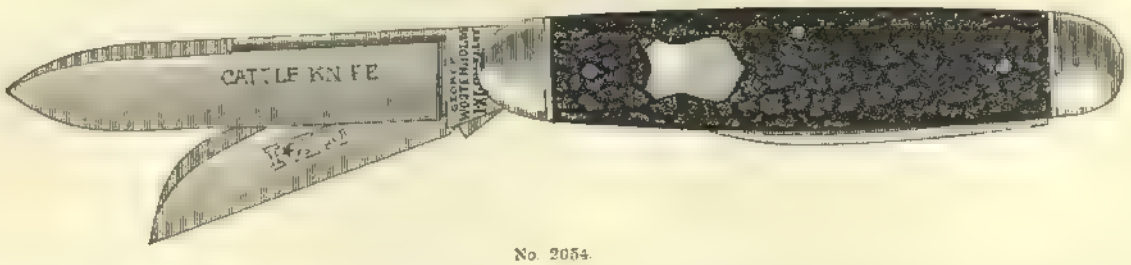
# Pocket Knives.

## George Wostenholm's IXL.

Full Size Cuts.

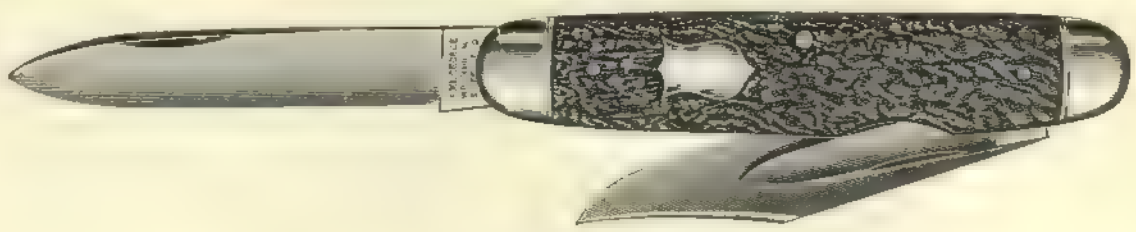
No. 14051

**No. 14051**—3⅜ in., Three Blades, Stag Handle, Brass Lined, German Silver Bolster, Half Crocus Finish, ..Per Dozen, $35 00




No. 2054

**No. 2054**—3⅝ in., Three Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap, Glazed Blades .....Per Dozen, $34 00



No. 2177

**No. 2177**—3⅝ in., Three Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap, Glazed Blades. .....Per Dozen, $34 00

No. 16054

**No. 16054**—4 in., Three Blades, Genuine Stag Handle, Brass Lined, German Silver Bolster, Full Crocus Finish.....Per Dozen, $44 00

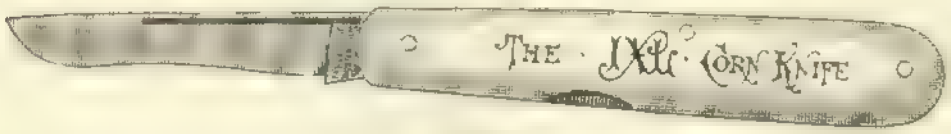
All Half Dozen in a Box.

# Pocket Knives.

## George Wostenholm's IXL.

Full Size Cuts.

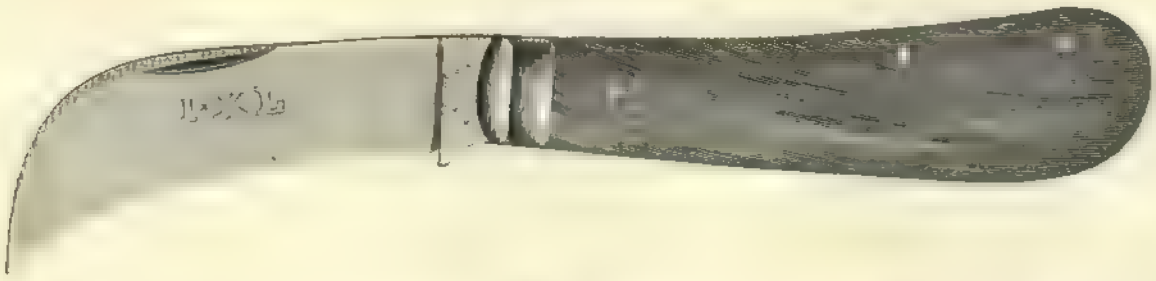
### Corn Knife.




No. 12825

**No. 12825**—One Blade, Full Crocus Polished, Ivory Handle, Brass Lined . Per Dozen, $16 00

### Pruning Knives.



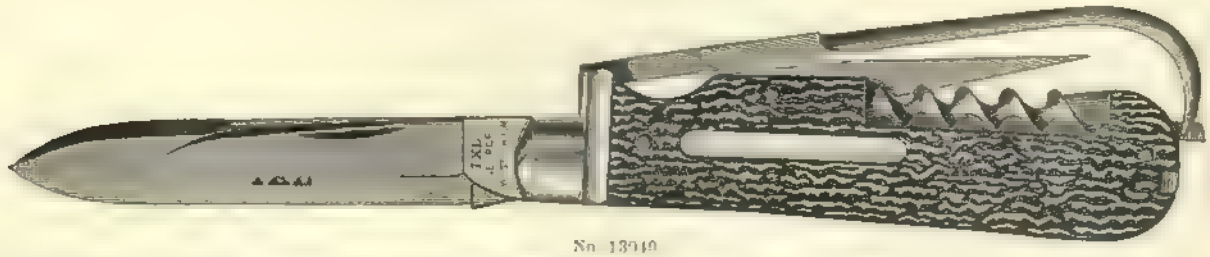
No. 11270

**No. 11270**—3¾ in,. One Blade, Cocoa Handle. Brass Lined, Polished Steel Bolster Per Dozen, $15 00

No. 7706

**No. 7706** 4½ in., One Blade, Ebony Handle, Iron Lined. Polished Steel Butt and Bolster. ..Per Dozen, $20 00

### Sportsman's Knife.

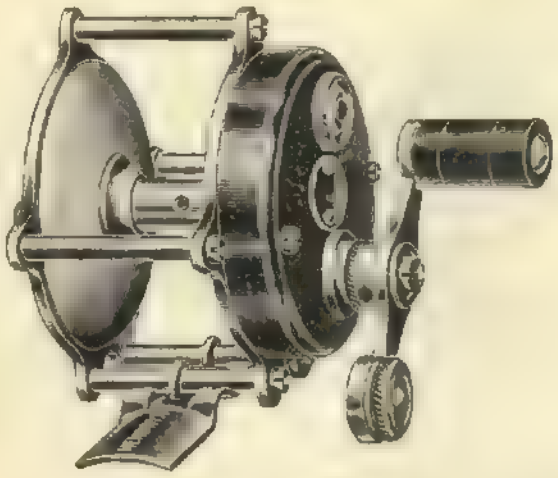


No. 13949

**No. 13949**—3½ in , Two Blades and Five Tools. Stag Handle, Steel Lined, Polished Bolster .Per Dozen, $42 00

All Half Dozen in a Box.

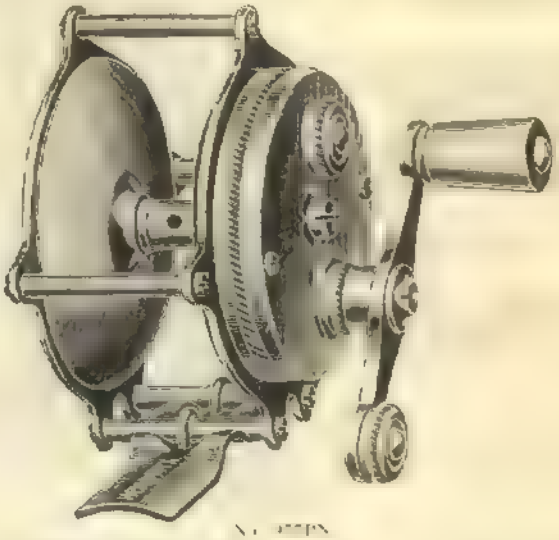
# Fishing Reels.



Nos. 002904PN and 002906PN

Double Multiplying Extra Finished, Long Bearing Patent Handle Screwed Nickel Plated Reels with Patent Adjustable Slide Drag and Back Sliding Click

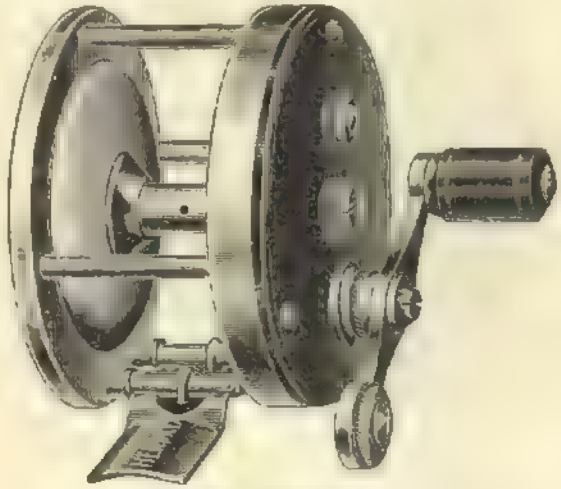
| Nos | 002904 PN. | 002906 PN. |
|---|---|---|
| Yards | 40 | 60 |
| Diameter of Disk, inch. | 2 | 2¼ |
| Length of Pillar, " | 1 | 1 |
| Per Dozen | $9 00 | 9 75 |



No. 977PN

Double Multiplying Extra Finished, Long Bearing, Patent Oil Cap Brass Pivots, Raised Collar, Diamond Handle Screwed Brass Reel with Adjustable Slide Drag and Back Sliding Click Nickel Plated.

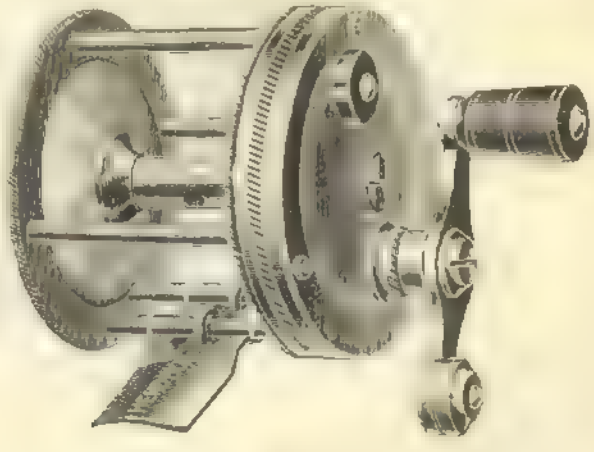
| No | 977PN. |
|---|---|
| Yards | 80 |
| Diameter of Disk, inch | 2½ |
| Length of Pillar, " | 1⅜ |
| Per Dozen | $12 00 |



Nos. 06N and 07N

Double Multiplying, Round Disks, Balanced Handle, Screwed Reel, Combined Rubber and Metal Disks, Steel Pivots in Bushed Bearings with Oil Cap, Patent Adjustable Slide Drag and Back Sliding Click, Nickel Plated.

| Nos | 06 N. | 07 N. |
|---|---|---|
| Yards | 60 | 80 |
| Diameter of Disk, inch | 2¼ | 2½ |
| Each | $2 50 | 2 75 |



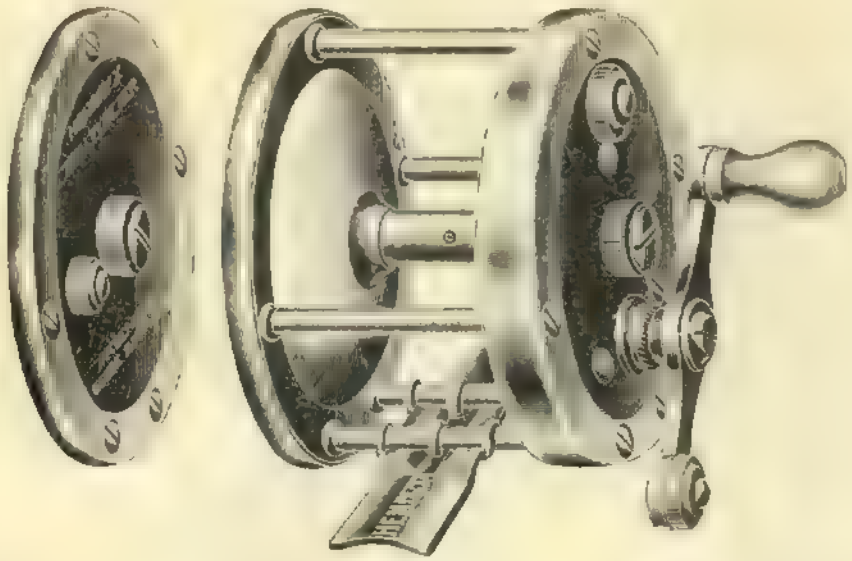
No. 4N

Quadruple, Round Disks, Balanced Handle, Screwed Brass Reel, with Fine Steel Pivots in Bushed Bearings with Oil Cap Patent Adjustable Slide Drag, Back Sliding Click, and Nickel Plated

| No | 4 N |
|---|---|
| Yards | 80 |
| Diameter of Disk, inch | 2 |
| Each | $2 50 |

All One in a Box.

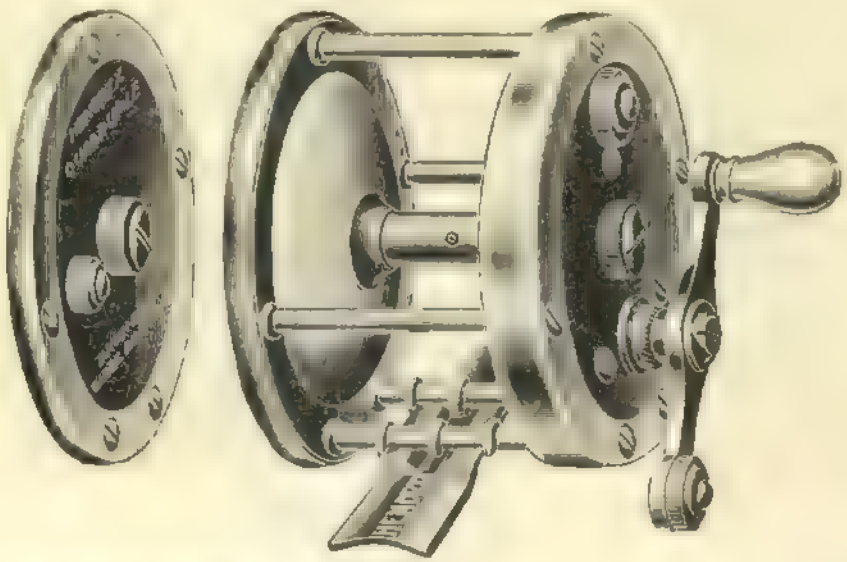
# Fishing Reels.



Nos. A6 and A7

Double Multiplying, Nickel Plated, Rubber Disks, Metal Bound Globe-Bearing Reel. Wrought Brass Gear running in a fine Steel Pinion, Polished Steel Pivots revolving in Adjustable Globe Bearings with Oil Caps covering Front and Back Pivots, Patent Adjustable Slide Drag, Steel Ratchet and Adjustable Back Sliding Steel Click

| Nos | A6 | A7 |
|---|---|---|
| Yards | 60 | 80 |
| Diameter of Disk, inch | 2¼ | 2½ |
| Each | $4 50 | $5 00 |



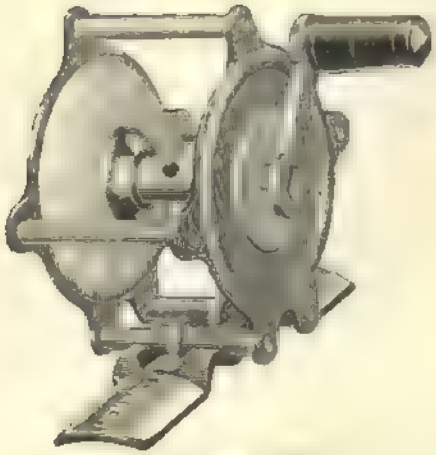
Nos. B6 and B7

Quadruple Nickel Plated Rubber Disks Metal Bound Globe-Bearing Reel. Wrought Brass Gear running in a fine Steel Pinion Polished Steel Pivots, revolving in Adjustable Globe Bearings with Oil Caps covering Front and Back Pivots Patent Adjustable Slide Drag, Steel Ratchet, and Adjustable Back Sliding Steel Click

| Nos | B6 | B7 |
|---|---|---|
| Yards | 60 | 80 |
| Diameter of Disk, inch | 2¼ | 2½ |
| Each | $5 00 | $5 50 |

# Fishing Reels.

## Single Action.



Nos. 102P and 102PN

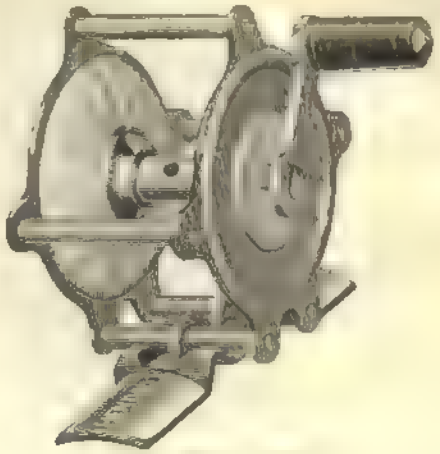
### Brass, Raised Pillar, Riveted.

| No. | 102P |
|---|---|
| Yards | 25 |
| Diameter of Disk, inch | 1¾ |
| Per Dozen | $2 50 |

### Brass, Nickel Plated, Raised Pillar, Riveted.

| No | 102PN |
|---|---|
| Yards | 25 |
| Diameter of Disk, inch | 1¾ |
| Per Dozen | $3 00 |

Half Dozen in a Box



Nos. 202P, 204P and 206P

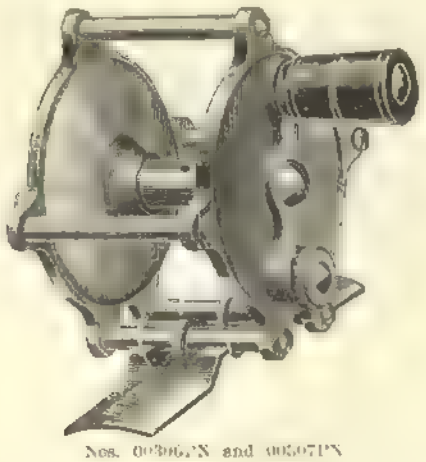
### Brass, Raised Pillar, with Click, Riveted.

| Nos | 202P | 204P | 206P |
|---|---|---|---|
| Yards | 25 | 40 | 60 |
| Diameter of Disk, inch | 1¾ | 2 | 2¼ |
| Per Dozen | $2 75 | 3 25 | 3 75 |

### Nickel Plated, Brass, Raised Pillar, with Click, Riveted.

| Nos | 202PN | 204PN | 206PN |
|---|---|---|---|
| Yards | 25 | 40 | 60 |
| Diameter of Disk, inch | 1¾ | 2 | 2¼ |
| Per Dozen | $3 25 | 3 75 | 4 25 |

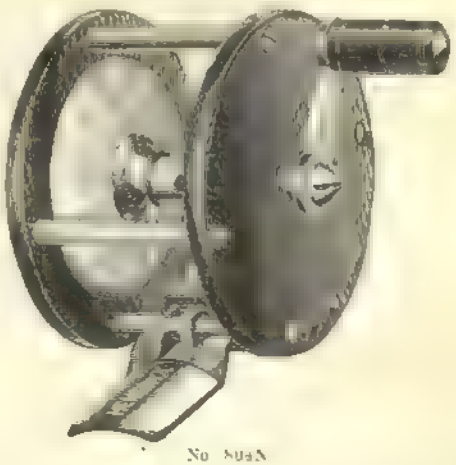
Half Dozen in a Box



Nos. 00306PN and 00307PN

Single Action, Raised Pillar, Screwed Brass, Nickel Plated Reels with Flush Balanced Handle, Patented Oil Cap, Back Sliding Click

| Nos | 00306PN | 00307PN |
|---|---|---|
| Yards | 60 | 80 |
| Diameter of Disk, inch | 2¼ | 2½ |
| Per Dozen | $9 00 | 9 75 |



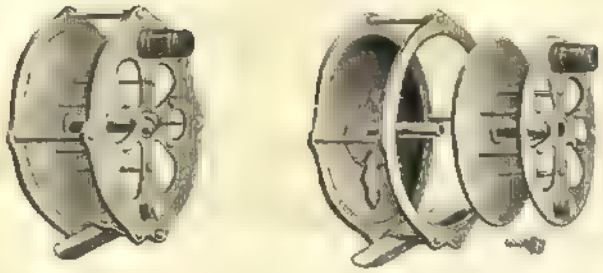
No. 804N

Single Action, Screwed Rubber Reel, Nickel Plated with Bushed Bearings and Click

| No | 804N |
|---|---|
| Yards | 40 |
| Diameter of Disk, inch | 2 |
| Per Dozen | $9 75 |

# Fishing Reels.

## Allright.

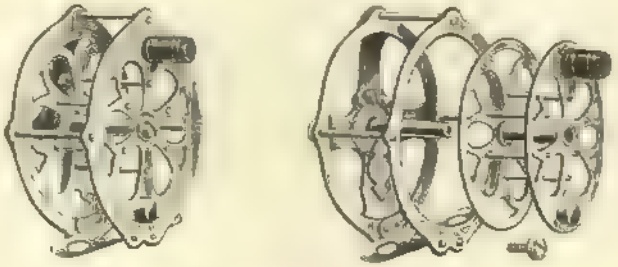


Closed Back to keep out dirt, Removable Spool, Back Sliding Click, Steel Spindle, Fine Nickel Finish, Best Workmanship. Nos. 120 and 130 are excellent Casting Reels.

| Nos. | 120 | 130 |
|---|---|---|
| Yards | 80 | 150 |
| Diameter of Disk, inch | 2¼ | 2⅝ |
| Width, inch | 1 | 1¼ |
| Per Dozen | $27 00 | 30 00 |

One in a Box

## Featherlight.

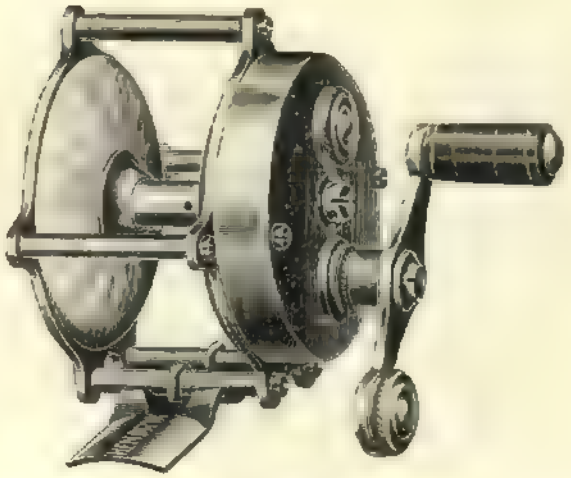


Lightest Reel made. Removable Spool, Back Sliding Steel Click, Steel Spindle, Fine Nickel Finish, Best Workmanship

| Nos | 270 | 280 |
|---|---|---|
| Yards | 60 | 80 |
| Diameter of Disk, inch | 2¼ | 2¼ |
| Width, inch | ¾ | 1 |
| Per Dozen | 24 00 | 27 00 |

One in a Box

## Double Multiplying.

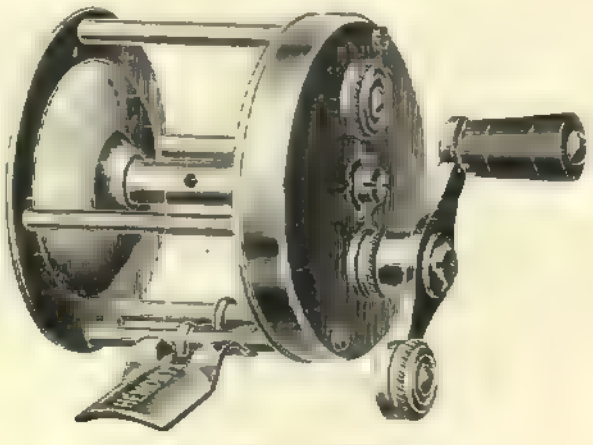


No. 2906P N

Double Multiplying, Raised Pillar, Balanced Handle, Screwed Brass Reel, with Patent Adjustable Slide Drag and Back Sliding Click, Nickel Plated

| No | 2906 P. N. |
|---|---|
| Yards | 60 |
| Diameter of Disk, inch | 2¼ |
| Length of Pillar, inch | 1 |
| Per Dozen | $9 00 |

One in a Box



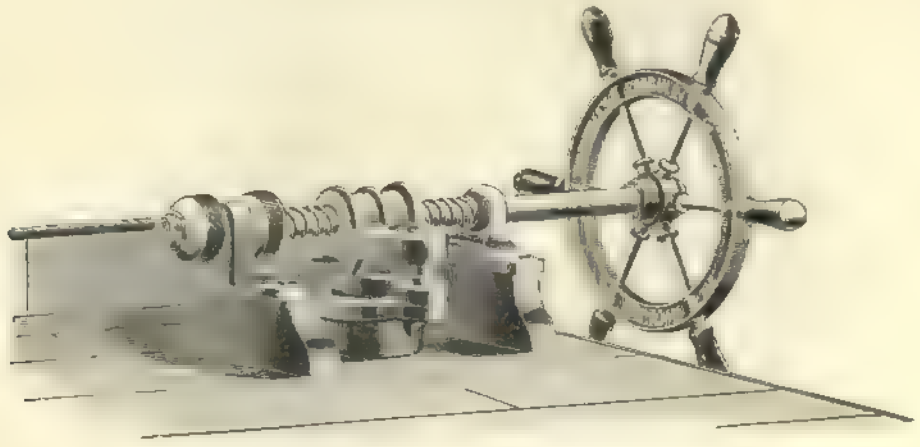
Nos. 0924N and 0926N

Double Multiplying, Round Disks, Balanced Handle, Screwed Brass Reels, with Brass Pivots, Patent Adjustable Slide Drag, Back Sliding Click, Nickel Plated

| Nos. | 0924 N. | 0926 N. |
|---|---|---|
| Yards | 40 | 60 |
| Diameter of Disk, inch | 2 | 2¼ |
| Length of Pillar, inch | 1⅜ | 1⅜ |
| Per Dozen | $12 00 | 12 75 |

One in a Box.

# Puritan Screw Steerer.



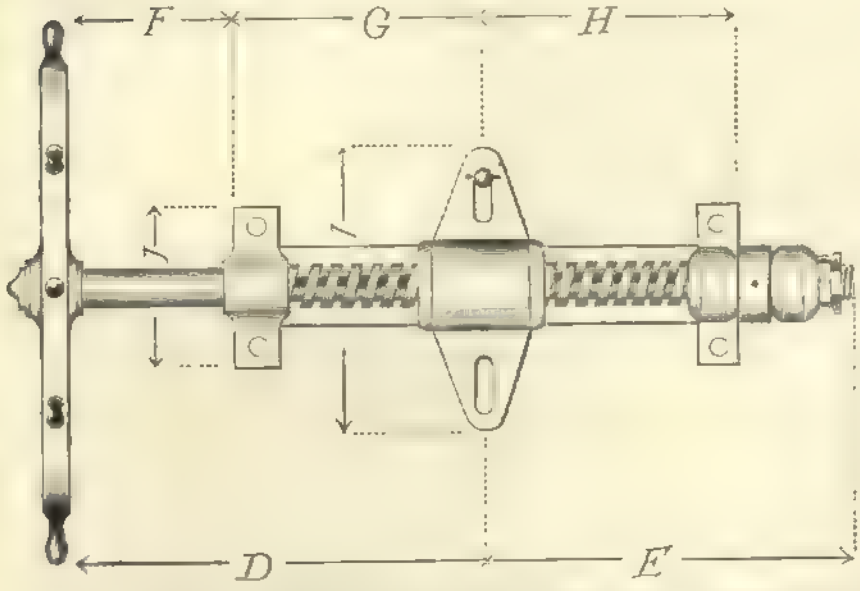
**Galvanized Iron Wheel, Iron Spokes, Wood Handles, Brass Caps.**

| **Nos.** | **2** | **3** | **4** |
|---|---|---|---|
| Size Wheel, inch | 25 | 28 | 30 |
| For Rudder Post, Size, inch | 4 to 4½ | 5 to 5½ | 6 to 6½ |
| Each | $35 00 | 40 00 | 50 00 |

A reverse motion may be had by changing pin to opposite side; it is the only Steerer made that has this advantage. It is rubber cushioned, giving it elasticity in case of a sudden jerk.

It is quick working, holds the Rudder in place at any angle, is simple in its construction and requires no repairs

## Dimensions of Puritan Steerers.

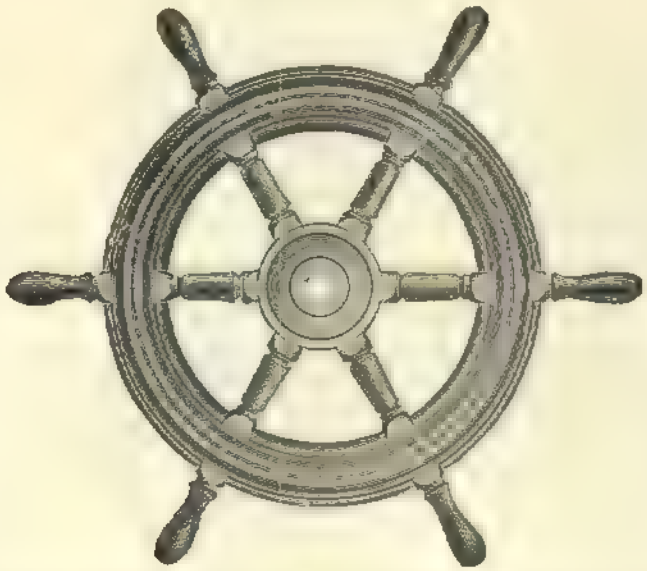



| Dimensions at | No 2 Inches. | No. 3 Inches. | No 4 Inches. |
|---|---|---|---|
| D | 15 | 16 | 20½ |
| E | 11 | 13 | 16½ |
| F | 8 | 8½ | 9¾ |
| G | 7 | 9½ | 10 |
| H | 7½ | 9 | 11 |
| I | 10 | 13½ | 13½ |
| J | 7½ | 8½ | 9 |
| Extreme Height of Steerer | 7½ | 8½ | 10½ |

The above table is compiled for the use of our customers who desire to know the space the Steerer will take up before ordering. If you wish to know the distance from wheel to extreme after-end of a No. 3 Steerer add the distance for D and E in No. 3 column, which is 16 and 13 inches together, making 29 inches for the entire distance. For shafts longer than regular we charge 25c net for every 12 inches or fraction thereof.

# Steering Wheels.

## Wooden.



| Mahogany Rim, Spokes and Handles, Brass Face and Hub. | | |
|---|---|---|
| Diameter, inch | 20 | 24 |
| Weight Each Net, lbs | 7 | 11 |
| Each | $20 00 | 25 00 |

| Mahogany Rim, Rosewood Spokes and Handles, Brass Face and Hub. | | |
|---|---|---|
| Diameter, inch | 20 | 24 |
| Weight Each Net, lbs | 7 | 12 |
| Each | $20 00 | 25 00 |

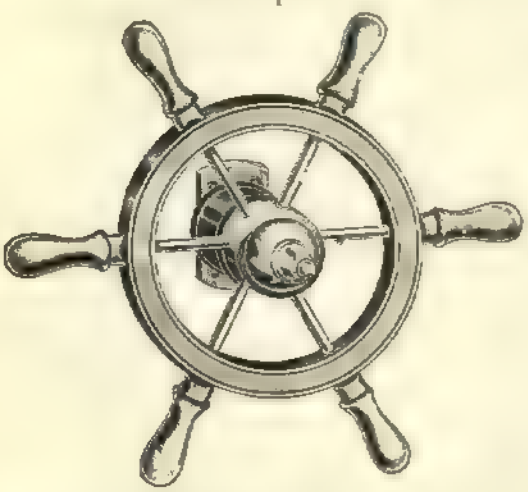
| Mahogany Rim, Spokes and Handles, Rims Studded With Holly. | | |
|---|---|---|
| Diameter, inch | 30 | 36 |
| Weight Each Net, lbs | 15 | 21 |
| Each | $40 00 | 50 00 |

| Mahogany Rim, Rosewood Spokes and Handles, Studded with Holly. | | |
|---|---|---|
| Diameter, inch | 30 | 36 |
| Weight Each Net, lbs | 16 | 23 |
| Each | $40 00 | 50 00 |

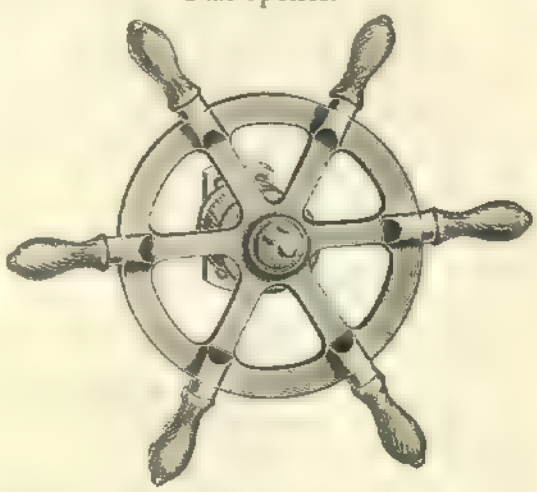
# Launch Steering Wheels.

Complete with Drum.

Round Spokes.



Flat Spokes.

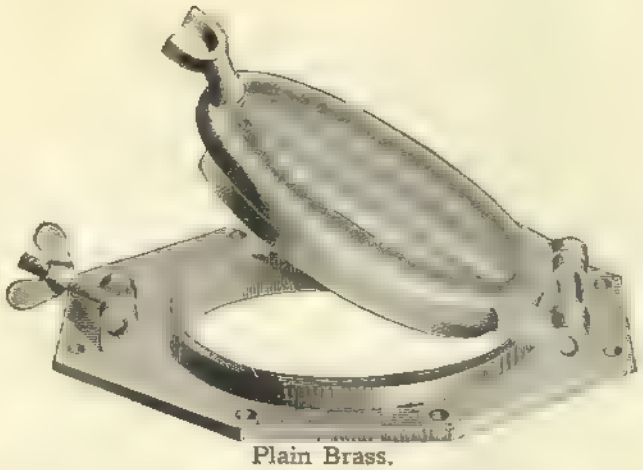


| Galvanized Iron Wheel, Wood Handles. | | |
|---|---|---|
| Nos. | 3 | 4 |
| Size Wheel, inch | 12 | 16 |
| Size of Drum, inch | 2½×3½ | 3×4 |
| Weight Each Net, lbs | 4 | 6 |
| Each | $6 00 | 9 00 |

| Polished Brass Wheel, Wood Handles. | | | |
|---|---|---|---|
| Nos. | 8 | 9 | 10 |
| Size Wheel, inch | 12 | 16 | 20 |
| Size of Drum, inch | 2½×3½ | 3×4 | 4×4½ |
| Weight Each Net, lbs | 4 | 6 | 10 |
| Each | $10 50 | 15 00 | 20 00 |

# Side or Port Lights.

## Round.



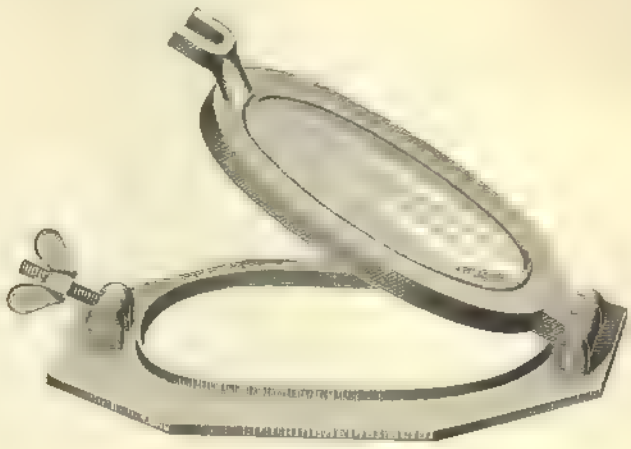
Plain Brass.

| Size of Opening, in., | 6 | 7 | 8 | 9 | 10 | 12 |
|---|---|---|---|---|---|---|
| Wt. Each Net, lbs... | 9 | 12 | 15 | 21 | 25 | 33 |
| Each ..... | $6 50 | 7 50 | 9 00 | 12 00 | 18 00 | 36 00 |

Galvanized Iron.

| Size of Opening, in., | 6 | 7 | 8 | 9 | 10 | 12 |
|---|---|---|---|---|---|---|
| Each ..... | $4 00 | 4 75 | 5 75 | 7 50 | 11 00 | 20 00 |

## Oval.



Polished Brass.

**Size of Opening, 4 - 7 in.,** Weight Each Net, 5 lbs..... .....**Each, $10 00**

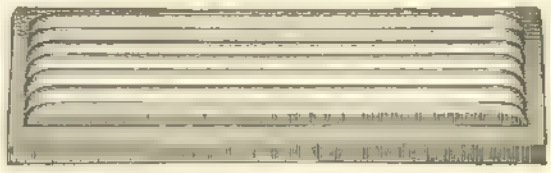
# Deck Lights.

## Hexagon Pointed.

Glass.

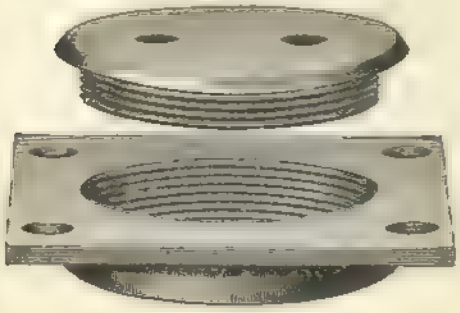
| **Diameter Face, inch..** | **3** | **4** |
|---|---|---|
| Weight per Dozen, lbs.. | 25 | 50 |
| Per Dozen..... | $6 00 | 12 00 |

## Ribbed.



Glass.

| **Length**, inch ..... | 9½ | 10½ |
|---|---|---|
| Width, inch ..... | 2½ | 3½ |
| Weight Each, lbs..... | 4 | 6 |
| Each ..... | $1 20 | 2 00 |

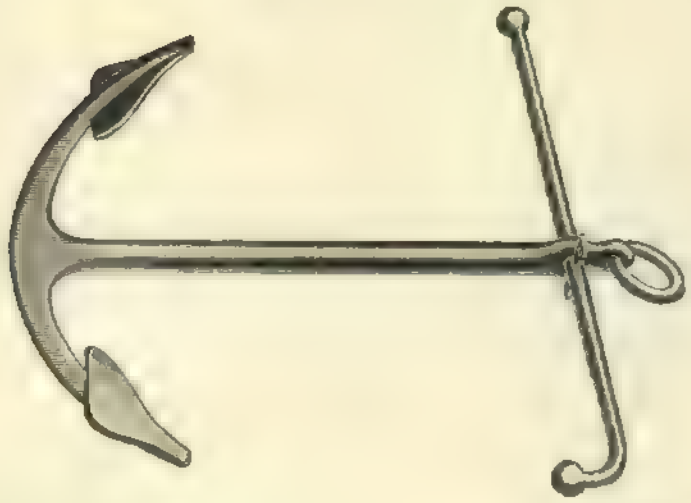


# Deck Plates.

Plain Brass, with Key.

| **Opening**, inch ..... | 1 | 1¼ | 1½ | 1¾ | 2 | 2½ |
|---|---|---|---|---|---|---|
| Weight per Dozen, lbs., | 5 | 6½ | 8 | 11 | 13 | 18 |
| Per Dozen ..... | $14 50 | 16 50 | 18 00 | 22 50 | 27 00 | 36 00 |
| **Opening**, inch ..... | 3 | 3½ | 4 | 4½ | 5 | |
| Weight per Dozen, lbs., | 23 | 28 | 32 | 38 | 44 | |
| Per Dozen . . . . | $50 00 | 63 00 | 67 00 | 72 00 | 100 00 | |

# Kedge Anchors.



**Wrought Iron, Black.**

| | | | |
|---|---|---|---|
| 8 to 11 lbs. | Per Pound, | $0 | 12 |
| 12 " 24 " | " " | | 11 |
| 25 " 79 " | " " | | 10 |
| 80 " 350 " | " " | | 09½ |
| 351 lbs. and Larger | " " | | 10 |

**Wrought Iron, Galvanized.**

| | | | |
|---|---|---|---|
| 5 to 11 lbs | Per Pound, | $0 | 16 |
| 12 " 24 " | " " | | 17 |
| 25 " 79 " | " " | | 14 |
| 80 " 350 " | " " | | 13½ |

# Folding Anchors.

## Cape Cod.

Open

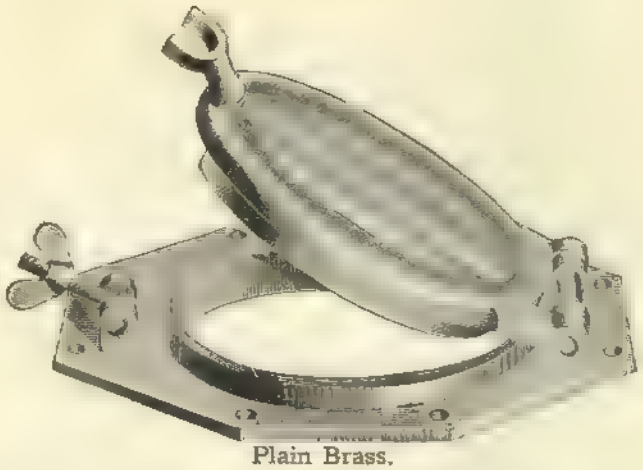
**Galvanized.**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. 6—Weight Each Net, | 6 Pounds. | | Each, | $3 | 00 |
| No. 8 | " " " | 8 | " | | " | 4 | 00 |
| No. 10 | " " " | 10 | " | | " | 5 | 00 |
| No. 12 | " " " | 12 | " | | " | 6 | 00 |
| No. 16 | " " " | 16 | " | | " | 7 | 00 |
| No. 20 | " " " | 20 | " | | " | 9 | 00 |
| No. 25 | " " " | 25 | " | | " | 10 | 00 |

Closed.

# Side or Port Lights.

## Round.



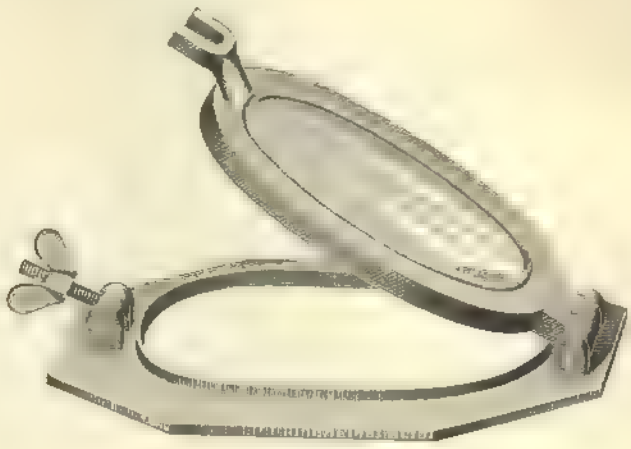
Plain Brass.

| Size of Opening, in., | 6 | 7 | 8 | 9 | 10 | 12 |
|---|---|---|---|---|---|---|
| Wt. Each Net, lbs... | 9 | 12 | 15 | 21 | 25 | 33 |
| Each ..... | $6 50 | 7 50 | 9 00 | 12 00 | 18 00 | 36 00 |

Galvanized Iron.

| Size of Opening, in., | 6 | 7 | 8 | 9 | 10 | 12 |
|---|---|---|---|---|---|---|
| Each ..... | $4 00 | 4 75 | 5 75 | 7 50 | 11 00 | 20 00 |

## Oval.



Polished Brass.

**Size of Opening, 4 - 7 in.,** Weight Each Net, 5 lbs..... .....**Each, $10 00**

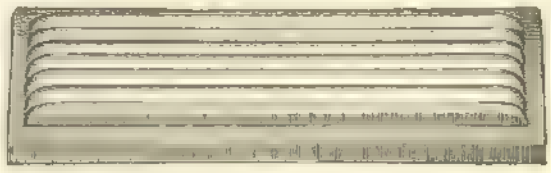
# Deck Lights.

## Hexagon Pointed.

Glass.

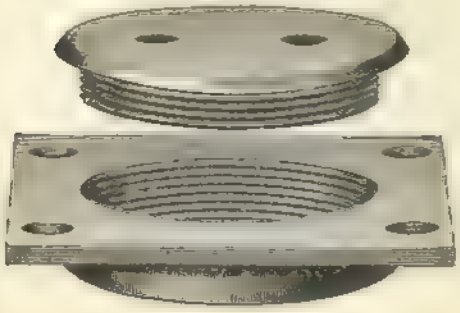
| **Diameter Face, inch..** | **3** | **4** |
|---|---|---|
| Weight per Dozen, lbs.. | 25 | 50 |
| Per Dozen..... | $6 00 | 12 00 |

## Ribbed.



Glass.

| **Length**, inch ..... | 9½ | 10½ |
|---|---|---|
| Width, inch ..... | 2½ | 3½ |
| Weight Each, lbs..... | 4 | 6 |
| Each ..... | $1 20 | 2 00 |



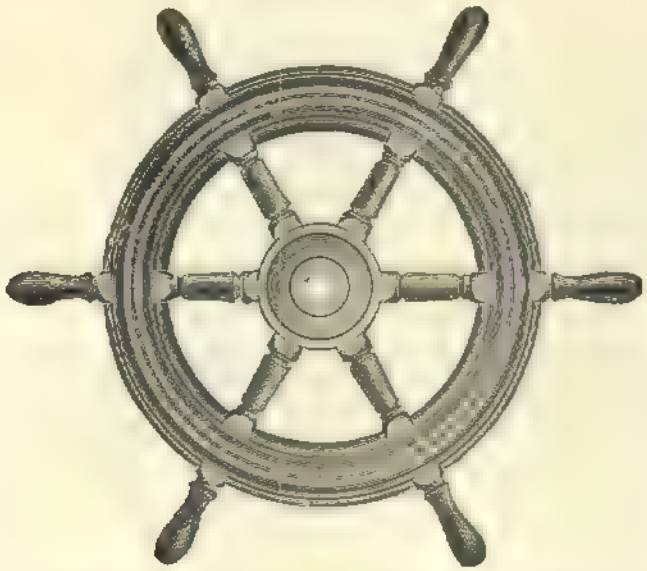
# Deck Plates.

Plain Brass, with Key.

| **Opening**, inch ..... | 1 | 1¼ | 1½ | 1¾ | 2 | 2½ |
|---|---|---|---|---|---|---|
| Weight per Dozen, lbs., | 5 | 6½ | 8 | 11 | 13 | 18 |
| Per Dozen ..... | $14 50 | 16 50 | 18 00 | 22 50 | 27 00 | 36 00 |
| **Opening**, inch ..... | 3 | 3½ | 4 | 4½ | 5 | |
| Weight per Dozen, lbs., | 23 | 28 | 32 | 38 | 44 | |
| Per Dozen . . . . | $50 00 | 63 00 | 67 00 | 72 00 | 100 00 | |

# Steering Wheels.

## Wooden.



| Mahogany Rim, Spokes and Handles, Brass Face and Hub. | | |
|---|---|---|
| Diameter, inch | 20 | 24 |
| Weight Each Net, lbs | 7 | 11 |
| Each | $20 00 | 25 00 |

| Mahogany Rim, Rosewood Spokes and Handles, Brass Face and Hub. | | |
|---|---|---|
| Diameter, inch | 20 | 24 |
| Weight Each Net, lbs | 7 | 12 |
| Each | $20 00 | 25 00 |

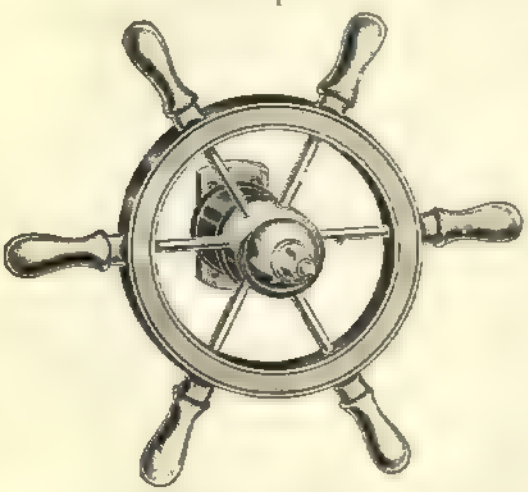
| Mahogany Rim, Spokes and Handles, Rims Studded With Holly. | | |
|---|---|---|
| Diameter, inch | 30 | 36 |
| Weight Each Net, lbs | 15 | 21 |
| Each | $40 00 | 50 00 |

| Mahogany Rim, Rosewood Spokes and Handles, Studded with Holly. | | |
|---|---|---|
| Diameter, inch | 30 | 36 |
| Weight Each Net, lbs | 16 | 23 |
| Each | $40 00 | 50 00 |

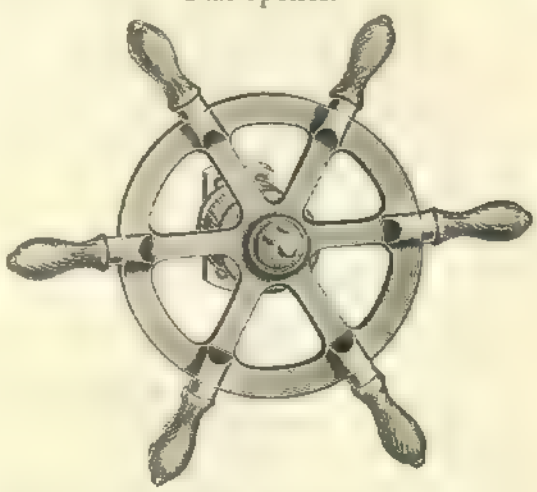
# Launch Steering Wheels.

Complete with Drum.

Round Spokes.



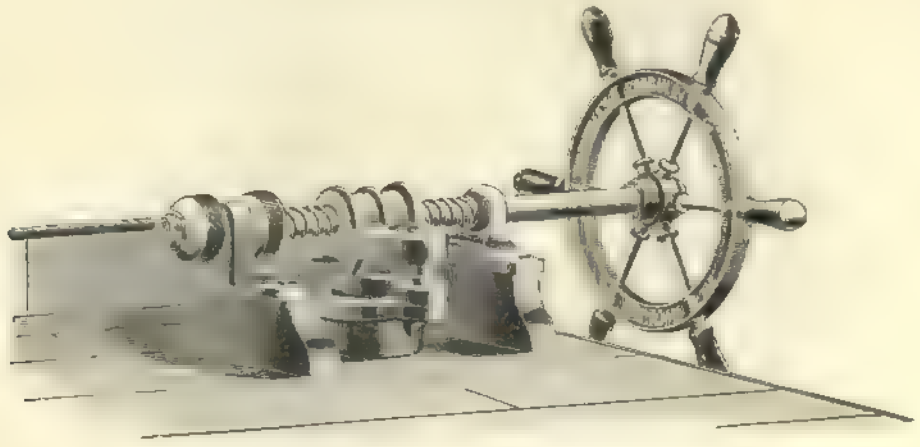
Flat Spokes.



| Galvanized Iron Wheel, Wood Handles. | | |
|---|---|---|
| Nos. | 3 | 4 |
| Size Wheel, inch | 12 | 16 |
| Size of Drum, inch | 2½×3½ | 3×4 |
| Weight Each Net, lbs | 4 | 6 |
| Each | $6 00 | 9 00 |

| Polished Brass Wheel, Wood Handles. | | | |
|---|---|---|---|
| Nos. | 8 | 9 | 10 |
| Size Wheel, inch | 12 | 16 | 20 |
| Size of Drum, inch | 2½×3½ | 3×4 | 4×4½ |
| Weight Each Net, lbs | 4 | 6 | 10 |
| Each | $10 50 | 15 00 | 20 00 |

# Puritan Screw Steerer.



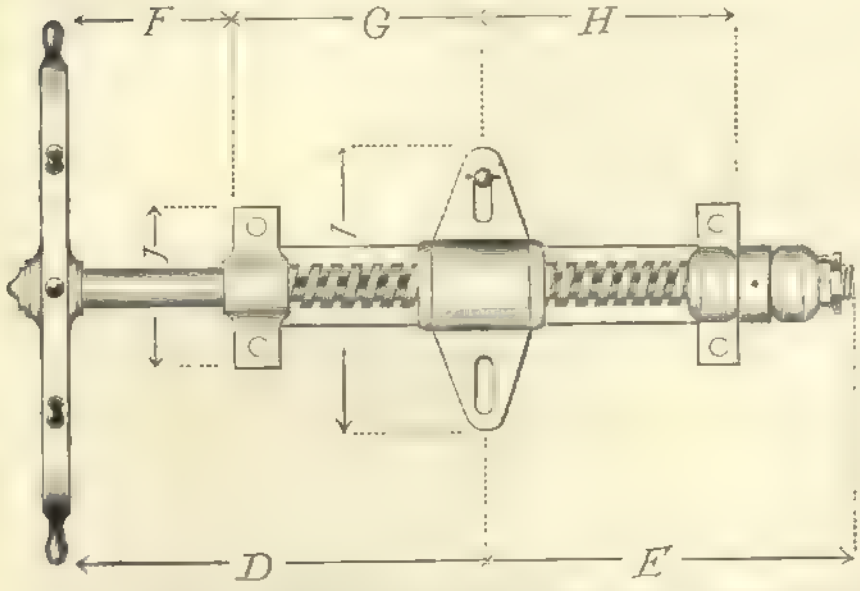
**Galvanized Iron Wheel, Iron Spokes, Wood Handles, Brass Caps.**

| **Nos.** | **2** | **3** | **4** |
|---|---|---|---|
| Size Wheel, inch | 25 | 28 | 30 |
| For Rudder Post, Size, inch | 4 to 4½ | 5 to 5½ | 6 to 6½ |
| Each | $35 00 | 40 00 | 50 00 |

A reverse motion may be had by changing pin to opposite side; it is the only Steerer made that has this advantage. It is rubber cushioned, giving it elasticity in case of a sudden jerk.

It is quick working, holds the Rudder in place at any angle, is simple in its construction and requires no repairs

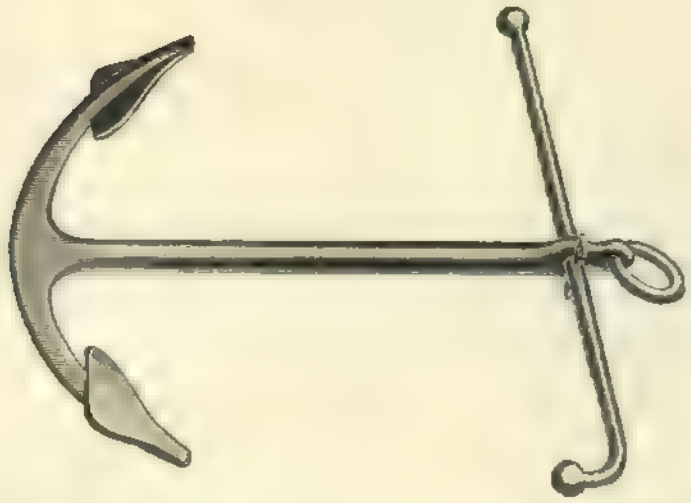
## Dimensions of Puritan Steerers.




| Dimensions at | No 2 Inches. | No. 3 Inches. | No 4 Inches. |
|---|---|---|---|
| D | 15 | 16 | 20½ |
| E | 11 | 13 | 16½ |
| F | 8 | 8½ | 9¾ |
| G | 7 | 9½ | 10 |
| H | 7½ | 9 | 11 |
| I | 10 | 13½ | 13½ |
| J | 7½ | 8½ | 9 |
| Extreme Height of Steerer | 7½ | 8½ | 10½ |

The above table is compiled for the use of our customers who desire to know the space the Steerer will take up before ordering. If you wish to know the distance from wheel to extreme after-end of a No. 3 Steerer add the distance for D and E in No. 3 column, which is 16 and 13 inches together, making 29 inches for the entire distance. For shafts longer than regular we charge 25c net for every 12 inches or fraction thereof.

# Kedge Anchors.



**Wrought Iron, Black.**

| | | | |
|---|---|---|---|
| 8 to 11 lbs. | Per Pound, | $0 | 12 |
| 12 " 24 " | " " | | 11 |
| 25 " 79 " | " " | | 10 |
| 80 " 350 " | " " | | 09½ |
| 351 lbs. and Larger | " " | | 10 |

**Wrought Iron, Galvanized.**

| | | | |
|---|---|---|---|
| 5 to 11 lbs | Per Pound, | $0 | 16 |
| 12 " 24 " | " " | | 17 |
| 25 " 79 " | " " | | 14 |
| 80 " 350 " | " " | | 13½ |

# Folding Anchors.

## Cape Cod.

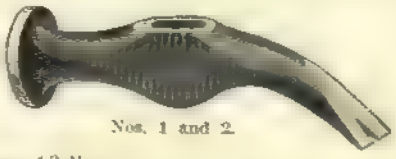
Open

**Galvanized.**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. 6—Weight Each Net, | 6 Pounds. | | Each, | $3 | 00 |
| No. 8 | " " " | 8 | " | | " | 4 | 00 |
| No. 10 | " " " | 10 | " | | " | 5 | 00 |
| No. 12 | " " " | 12 | " | | " | 6 | 00 |
| No. 16 | " " " | 16 | " | | " | 7 | 00 |
| No. 20 | " " " | 20 | " | | " | 9 | 00 |
| No. 25 | " " " | 25 | " | | " | 10 | 00 |

Closed.

# Coppering Hammers.



Nos. 1 and 2.

**No. 1**—Best Cast Steel, Weight per Dozen, 16 lbs . . . . . Per Dozen, $15 00
**No. 2** Cast Steel, Weight per Dozen, 16 lbs . . . . . " " 12 00

# Coppering Punch.

**No. 1**—6 in., Best Cast Steel, Polished, Weight per Dozen, 10 lbs . . . . Per Dozen, $6 00
One Dozen in a Box.

# Marline Spikes.

Tempered Steel, Polished.

| **Length**, inch | **8** | **10** | **12** | **14** | **16** |
|---|---|---|---|---|---|
| Weight per Dozen Net, lbs | 9 | 15 | 20 | 28 | 38 |
| Per Dozen | $5 50 | 6 50 | 8 00 | 10 50 | 15 25 |

Half Dozen in a Box.

# Wire Rope Marline Spikes.

**12 Inch**—Solid Cast Steel, Polished, Weight per Dozen, 16 lbs. . . . . Per Dozen, $26 00
**14 Inch** " " " " " " " " 20 " . . . . . " " 28 00

# Caulking Mallets.

Locust Handles, Iron Rings.

**No. 10**—White Oak, Weight per Dozen Net, 32 lbs . . . . . Per Dozen, $18 00
**No. 00**—Live Oak, Weight per Dozen Net, 39 lbs . . . . . Per Dozen, 36 00
**No. 1**—Live Oak, Weight per Dozen Net, 34 lbs . . . . . Per Dozen, 30 00
**No. 2**—Live Oak, Weight per Dozen Net, 30 lbs . . . . . Per Dozen, 27 00
Extra Handles for Same.. " " 6 00

# Hawsing Beetles.

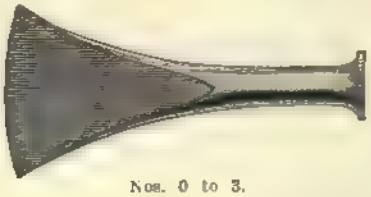
Wrought Iron Rings.

**No. 1**—Live Oak, Weight per Dozen Net, 95 lbs . . . . . Per Dozen, $36 00
**No. 2** Live Oak, Weight per Dozen Net, 88 lbs. . . . . Per Dozen, 30 00
Extra Handles for Same. . . . " " 6 00

All Above Packed as Ordered

# Caulking Irons.

## Common or Making.



Nos. 0 to 3.

### Reed's Solid Steel.

| Nos. | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| Thick, inch | 1/16 | 1/8 | 5/16 | 1/4 |
| Wt. per Dozen, lbs. | 7½ | 8 | 8½ | 9 |
| Per Dozen | $6 75 | 7 00 | 7 25 | 7 50 |

## Deck or Dumb.

Nos. 5 and 10.

### Common or Making.

### Drew's Solid Steel.

| Nos. | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| Thick, inch | 1/16 | 1/8 | 5/16 | 1/4 |
| Wt. per Dozen, lbs. | 7 | 7½ | 8 | 9 |
| Per Dozen | $12 00 | 12 00 | 12 00 | 12 00 |

### Deck or Dumb.

**Reed's Solid Steel.**

**No. 5**—Weight per Dozen, 9½ lbs ..... Per Dozen, $7 75

**Drew's Solid Steel.**

**No. 10**—Weight per Dozen, 9½ lbs ..... Per Dozen, $13 50

## Bent or Crooked.

No. 0.

**No. 0**—Reed's, Weight per Dozen, 8½ lbs. ... Per Dozen, $7 75
**No. 0**—Drew's, " " " 9 " ..... " " 14 25

## Spike.

Nos. 4 and 14.

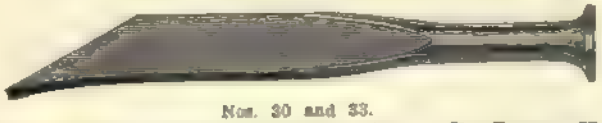
**No. 4**—Reed's, Weight per Dozen, 8½ lbs ..... Per Dozen, $7 50
**No. 14**—Drew's, " " " 8½ " ..... " " 12 00

## Double Bent.

**No. 0**—Reed's, Weight per Dozen, 8½ lbs ..... Per Dozen, $7 75

**No. 0**—Drew's, Weight per Dozen, 8½ lbs ..... Per Dozen, $14 25

## Reefing or Clearing.



Nos. 30 and 33.

**No. 30**—Reed's, Weight per Dozen, 9½ lbs ..... Per Dozen, $7 75
**No. 33**—Drew's, " " " 9½ " ..... " " 13 50

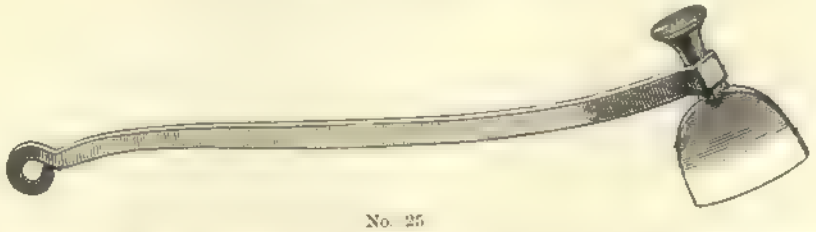
## Sharp or Butt.

Nos. 20 and 22.

**No. 20**—Reed's, Weight per Dozen, 10 lbs ..... Per Dozen, $9 00
**No. 22**—Drew's, " " " 10 " ..... " " 15 00

All Above One Dozen in a Box.

# Hawsing Irons.



No. 25.

**No. 25**—Bent, Cast Steel Blades ¼ in. Thick, Weight per Dozen, 70 lbs ..... Per Dozen, $24 00
**No. 25** " " " " 5/16 " " " " " " 78 " ..... " " 26 00
**No. 26**—Straight " " " " ¼ " " " " " " 70 " ..... " " 24 00
**No. 26** " " " " 5/16 " " " " " " 78 " ..... " " 26 00

# Hand Fids.

Nos. 1 to 4.

**Polished, Seasoned Hickory.**

| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Length, inch | 14 | 16 | 18½ | 20½ |
| Each | $0 25 | 0 60 | 0 70 | 0 80 |

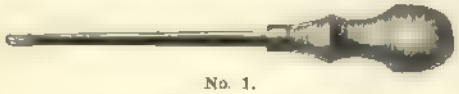
# Cringle or Standing Fids.

Nos. 1 to 3

**Polished, Seasoned Hickory.**

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Length, inch | 30 | 32 | 36 |
| Size of Butt, inch | 4 | 5 | 6 |
| Each | $3 00 | 4 00 | 5 00 |

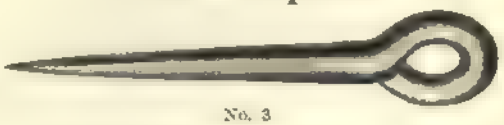
# Sailmakers' Pricker.



No. 1.

**No. 1** 10 in., Tool Steel, Wood Handle Each, $1 50

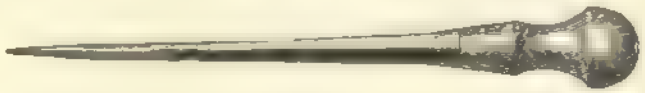
# Trawl Splicer.



No. 3

**No. 3**—4 in., Polished Tool Steel Per Dozen, $2 00

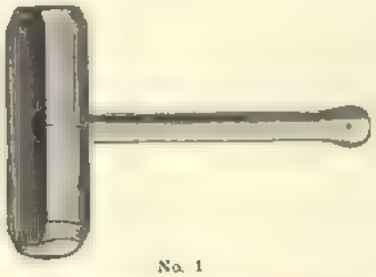
# Sailmakers' Marline Spike.



No. 1.

**No. 1**—13 in., Polished Tool Steel, Fancy Wood Handle ..... Each, $3 00

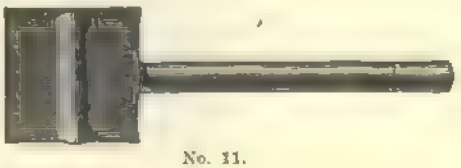
# Serving Mallet.



No. 1

**No. 1**—Hickory, Hickory Handles Per Dozen, $7 00

# Serving Board.



No. 11.

**No. 11** Hickory, Hickory Handles. Per Dozen, $7 00

All Above Packed as Ordered.

# Sailors' Palms.

**No. 2**—Full Hide Mounted, Seaming, Weight per Dozen, 2½ lbs . . . . . Per Dozen, $ 4 00
**No. 5**—Hide Mounted, Seaming with Buckle, Weight per Dozen, 3 lbs . . . . . " " 5 00
**No. 6**—All Hide Mounted, Seaming, Extra Stitched, with Buckle, Weight per Dozen, 3 lbs. . . " " 7 00
**No. 8**—All Hide Roping, " " " " " " " " 3 " . . . " " 12 00
**No. 2**—Left Hand, Full Hide Mounted, Seaming . . . . . " " 4 00

One Dozen in a Box

# Grommets.

Sheet. Spur.

Sheet.

| Nos. | 0 | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| Diameter Hole, inch. | 3/16 | 1/4 | 5/16 | 7/16 | 9/16 |
| Wt. per Gross, lbs. | 1 | 1 | 1½ | 2 | 3 |
| Per Gross | $0 50 | 0 80 | 1 10 | 1 50 | 2 50 |

Patent Spur.

| Nos. | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Diameter Hole, inch. | 5/16 | 3/8 | 7/16 | ½ | 5/8 |
| Wt. per Gross, lbs. | 2 | 2 | 3 | 4 | 5 |
| Per Gross | $1 80 | 2 00 | 2 70 | 3 60 | 4 75 |

All Above One Gross in a Box.

# Grommet Dies.

Sheet.

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Weight Each, lbs. | 1½ | 1½ | 1½ | 2 | 3 | 4 |
| Each | $2 00 | 2 15 | 2 25 | 2 35 | 2 50 | 2 70 |

Patent Spur.

| Nos. | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Weight Each, lbs. | 1½ | 1½ | 1½ | 2 | 3 |
| Each | $2 15 | 2 25 | 2 35 | 2 50 | 2 70 |

All Above One in a Box.

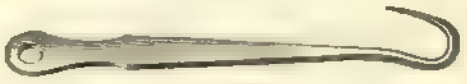
# Cutting Punches.

Nos. 0 to 5

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Wt. Each, lbs | ½ | ½ | ½ | ½ | ¾ | ¾ |
| Each | $1 00 | 1 00 | 1 20 | 1 30 | 1 50 | 1 75 |

# Bench Hooks.

Sailmakers'.



No. 293.

No. 291.

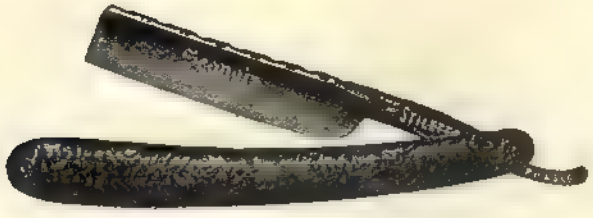
**No. 293**—Flat Tool Steel . . . . . Per Dozen, $15 00
**No. 291**—With Brass Swivel . . . . . " " 30 00

Weight per Doz., 1 lb.

# RAZORS.

## STILETTO

Fully Warranted



No. 120. Square Point.

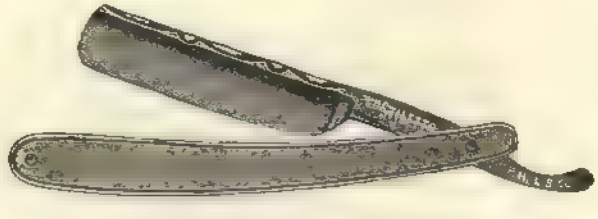
No. 125. Square Point.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 120— | Blade, | 5/8 | inch. | Square point. | Concave, full crocus polished. | | | | | One piece | Celluloid handle, fancy mottled. | | | | | ..Per dozen, | $24 00 |
| No. 120— | " | 5/8 | " | Round | " | " | " | " | " | " | " | " | " | " | " | " | 24.00 |
| No. 125— | " | 5/8 | " | Square | " | " | " | " | " | Black rubber oval handle, engraved | | | | | | " | 24.00 |
| No. 125— | " | 3/4 | " | " | " | " | " | " | " | " | " | " | " | " | | " | 24.00 |
| No. 125— | " | 5/8 | " | Round | " | " | " | " | " | " | " | " | " | " | | " | 24 00 |
| No. 125— | " | 3/4 | " | " | " | " | " | " | " | " | " | " | " | " | | " | 24.00 |

No. 140. Round Point.

No. 5. Square Point.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 140— | Blade, | 5/8 | inch. | Square point | Full concave, full crocus polished | | | | | | One piece | Celluloid handle, engraved | | | | ..Per dozen, | $24.00 | | |
| No. 140— | " | 5/8 | " | Round | " | " | " | " | " | " | " | " | " | " | " | " | 24.00 | | |
| No. 5— | " | 1/2 | " | Square | " | " | " | crocus polished. | | | Black rubber oval handle | | | | | " | 27.00 | | |
| No. 5— | " | 5/8 | " | " | " | " | " | " | " | " | " | " | " | " | | " | 27 00 | | |
| No. 5— | " | 1/4 | " | " | " | " | " | " | " | " | " | " | " | " | | " | 27 00 | | |
| No. 5— | " | 1/2 | " | Round | " | " | " | " | " | " | " | " | " | " | | " | 27 00 | | |
| No. 5— | " | 5/8 | " | " | " | " | " | " | " | " | " | " | " | " | | " | 27 00 | | |
| No. 5— | " | 3/4 | " | " | " | " | " | " | " | " | " | " | " | " | | " | 27 00 | | |



No. 7. Round Point.

No. 10. Square Point.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 7— | Blade, | 1/2 | -inch | Square point. | Full concave, full crocus polished. | | | | | | White celluloid flat handle | | | | | ....Per dozen, | $27 00 | | |
| No. 7— | " | 5/8 | " | " | " | " | " | " | " | " | " | " | " | " | " | " | 27 00 | | |
| No. 7— | " | 3/4 | " | " | " | " | " | " | " | " | " | " | " | " | " | " | 27 00 | | |
| No. 7— | " | 1/2 | " | Round | " | " | " | " | " | " | " | " | " | " | " | " | 27 00 | | |
| No. 7— | " | 5/8 | " | " | " | " | " | " | " | " | " | " | " | " | " | " | 27 00 | | |
| No. 10— | " | 1/2 | " | Square | " | Concave, | | " | " | " | Hard rubber oval handle, mottled | | | | | " | 27.00 | | |
| No. 10— | " | 5/8 | " | " | " | " | | " | " | " | " | " | " | " | " | " | 27.00 | | |
| No. 10— | " | 3/4 | " | " | " | " | | " | " | " | " | " | " | " | " | " | 27.00 | | |
| No. 10— | " | 1/2 | " | Round | " | " | | " | " | " | " | " | " | " | " | " | 27.00 | | |
| No. 10— | " | 5/8 | " | " | " | " | | " | " | " | " | " | " | " | " | " | 27.00 | | |
| No. 10— | " | 3/4 | " | " | " | " | | " | " | " | " | " | " | " | " | " | 27.00 | | |

One-half dozen in box

# RAZORS.

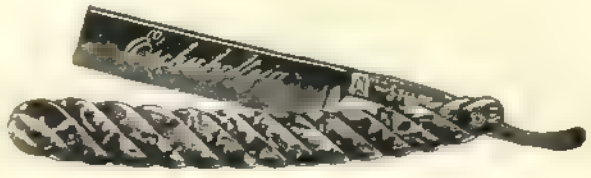
## STILETTO

Fully Warranted.

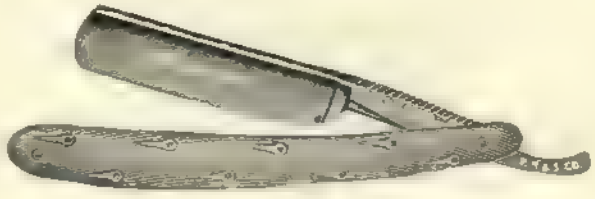
No. 60. Round Point.

No. 130. Round Point

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **No. 60**—Blade, ½ inch | Square point | Concave, full crocus polished. | Black rubber flat handle | Per dozen, | $27 00 |
| **No. 60**— " ⅝ " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " | 27.00 |
| **No. 60**— " ⅝ " | Round " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " | 27.00 |
| **No. 130**— " ⅝ " | Square " | Full concave, full crocus polished. | White celluloid fancy handle | " | 27 00 |
| **No. 130**— " ⅝ " | Round " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " | 27.00 |

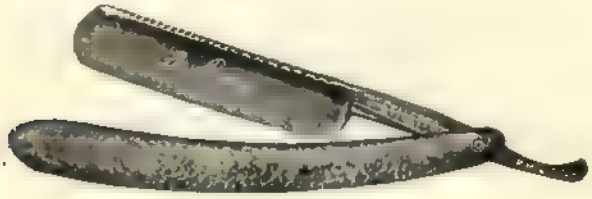


No. 135. Square Point.



No. 145. Round Point.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **No. 135**—Blade, ⅝ inch. | Square point. | Concave, full crocus polished. | Twist pattern. | Celluloid handle, mottled | Per dozen, | $27.00 |
| **No. 135**— " ⅝ " | Round " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " | 27 00 |
| **No. 145**— " ⅝ " | Square " | Full concave, full crocus polished. | One-piece. | " | fancy handle | " | 27 00 |
| **No. 145**— " ⅝ " | Round " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " | 27 00 |



No. 155. Round Point.

No. 100. Round Point.

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **No. 155**—Blade, ⅛ inch. | Square point. | Full concave, full crocus polished | One-piece | Celluloid oval handle, mottled | Per dozen, | $27 00 |
| **No. 155**— " ⅝ " | Round " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " " | " | 27 00 |
| **No. 100**— " ⅝ " | Square " | Concave, | " " | " " | White celluloid oval handle. | German silver, inlaid | " | 30 00 |
| **No. 100**—Blade, ⅝ inch. | Round point. | Concave, full crocus polished | White celluloid oval handle | German silver, inlaid | " | 30.00 |

One-half dozen in box

# RAZORS.

## STILETTO

Fully Warranted.

No. 150. Round Point.

No. 61. Square Point.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 150— | Blade, | 5/8 | inch. | Square point. | Concave, full crocus polished. | | | | | Celluloid handle, fancy mottled | | | | | | Per dozen, | $30.00 |
| No. 150— | " | 5/8 | " | Round | " | " | " | " | " | " | " | " | " | " | | " | 30 00 |
| No. 61— | " | 1/2 | " | Square | " | " | " | " | " | White celluloid flat handle | | | | | | " | 30 00 |
| No. 61— | | 5/8 | | " | " | " | " | " | " | " | " | " | " | | | " | 30 00 |
| No. 61— | " | 5/8 | " | Round | " | " | " | " | " | " | " | " | " | | | " | 30.00 |

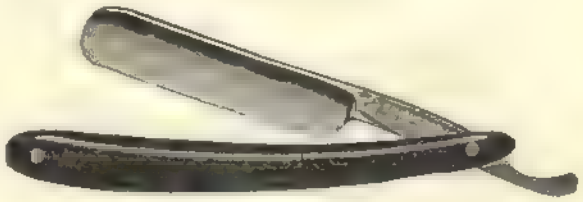
No. 14. Square Point.

No. 13. Square Point.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 14— | Blade, | 5/8 | inch. | Square point. | Concave, full crocus polished. | | | | | Ivory tang. | | | Black hard rubber oval handle | | | Per dozen, | $33 00 |
| No. 14— | " | 5/8 | " | Round | " | " | " | " | " | " | " | " | " | " | " | " | 33 00 |
| No. 13— | | 5/8 | " | Square | " | Full concave, full crocus polished. | | | | Ivory tang | | | Plain white celluloid handle | | | " | 36 00 |
| No. 13— | " | 5/8 | " | Round | " | " | " | " | " | " | " | " | Twist pattern white celluloid handle | | | " | 36 00 |

## CONQUEROR.

No. 160. Square Point.



No. 170. Round Point.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| No. 160— | Blade, | 5/8 | inch. | Square point. | Full concave, full crocus polished. | | | | | Pearl tang | | | Black rubber oval handle | | | Per dozen, | $48.00 |
| No. 160— | " | 5/8 | " | Round | " | " | " | " | " | " | " | " | " | " | " | " | 48 00 |
| No. 170— | | 1/2 | " | Square point. | Concave, glazed. | | | | | Black oval handle | | | | | | " | 10 80 |
| No. 170— | " | 5/8 | " | " | " | " | " | " | " | " | | | | | | " | 10.80 |
| No. 170— | " | 1/4 | " | " | " | " | " | " | " | " | | | | | | " | 10 80 |
| No. 170— | " | 1/2 | " | Round | " | " | " | " | " | " | | | | | | " | 10 80 |
| No. 170— | " | 5/8 | " | " | " | " | " | " | " | " | | | | | | " | 10 80 |

One-half dozen in box.

# RAZORS.

## STILETTO

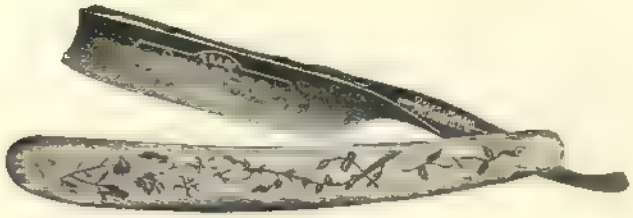
Fully Warranted.

No. 32. Square Point.

No. 30. Square Point.

**No. 32**—Blade, ⅝ inch. Square point. Full concave, full crocus polished. Ivory flat handle. Each razor in a plush-lined, hinged, leather case.....Per dozen, $ 72 00

**No. 30**—Blade, ⅝ inch. Square point. Full concave, full crocus polished. Pearl handle. Each razor in a plush-lined, hinged, leather case..... " 108 00



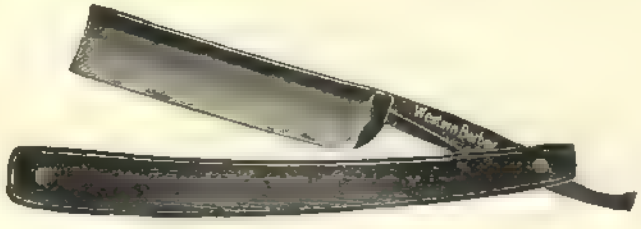
No. 31. Hollow Point.

Cut shows case furnished with Nos. 30, 31 and 32 Stiletto Razors.

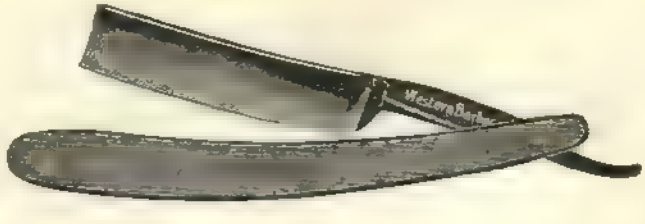
**No. 31**—Blade, ⅝ inch. Hollow point. Full concave, full crocus polished. Fancy pearl handle, gold inlaid. Each razor in a plush-lined, hinged, plush case.....Per dozen, $144 00

## WESTERN BARBER.

Fully Warranted.



No. 0. Square Point.



No. 8. Square Point.

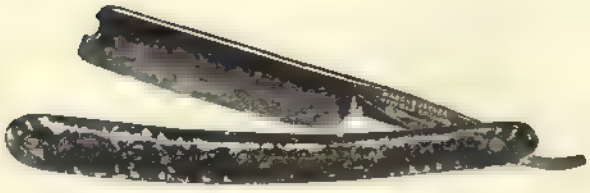
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **No. 0**—Blade, | ½ | inch. | Square | point. | Concave, | crocus | polished. | Black flat handle | Per dozen, | $21 | 00 |
| **No. 0**— " | ⅝ | " | " | " | " | " | " | " | " | 21 | 00 |
| **No. 2**— " | ½ | " | " | " | " | " | " | Celluloid flat handle, mottled | " | 21 | 00 |
| **No. 2**— " | ⅝ | " | " | " | " | " | " | " | " | 21 | 00 |
| **No. 8**— " | ½ | " | " | " | " | " | " | White bone " | " | 27 | 00 |
| **No. 8**— " | ⅝ | " | " | " | " | " | " | " | " | 27 | 00 |

One-half dozen in box.

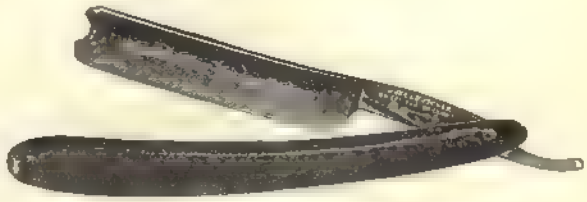
PACIFIC HARDWARE & STEEL COMPANY

# RAZORS.

## WADE & BUTCHER.

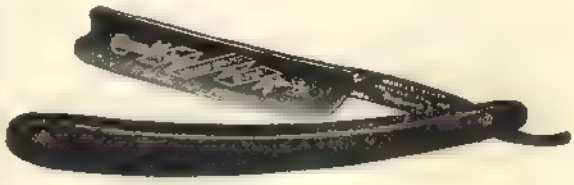


No. 744. Hollow Point.

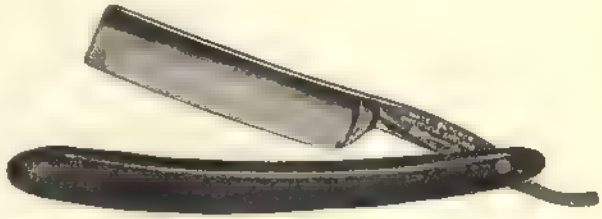


No. 1372. Hollow Point.

No. 744—Blade, ⅝ inch. Hollow point. Half concave, glazed. Imitation shell oval handle. Per dozen, $12.00
No. 1372— " ⅝ " " " " " " " Black rubber " " 12 00



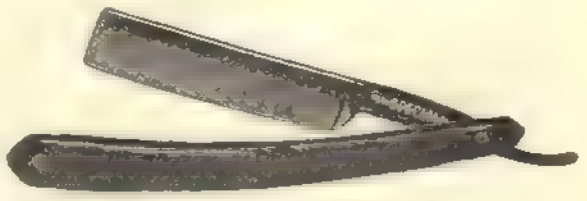
No. 1180. Hollow Point.



No. 3634. Square Point.

No. 1180—Blade, ⅝ inch. Hollow point Half concave, crocus finish. White bone flat handle... ...Per dozen, $15.00
No. 3634— " ⅝ " Square " Concave, crocus finish. Black rubber oval handle..... " 18.00
No. 3634— " ⅝ " Round " " " " " " " " " " " " " " 18.00

No. 100. Square Point.

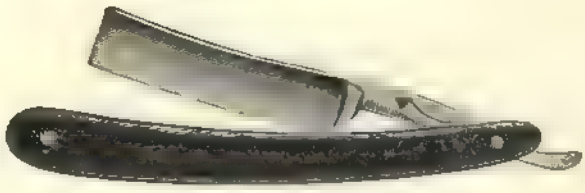


No. 15. Square Point.

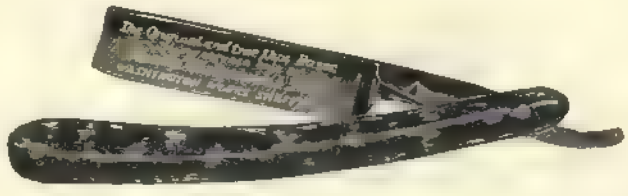
No. 100—Blade, ⅝ inch. Square point. Concave, crocus finish Black rubber oval handle Per dozen, $18 00
No. 101— " ¾ " " " " " " " " " " " " " "

# RAZORS.

## GEORGE WOSTENHOLM & SON'S IXL.



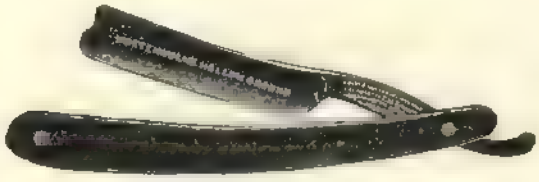
No. 01412. Square Point.



No. 01413. Square Point

### Fine Pipe.

**No. 01412**—Blade, ½ inch. Square point. Half concave, full crocus polished. Black rubber oval handle ..... Per dozen, $7 00
**No. 01412**— " ¾ " " " " " " " " " " " 7 00
**No. 01413**— " ½ " " " Full crocus polished Imitation shell oval handle.. " 7 00



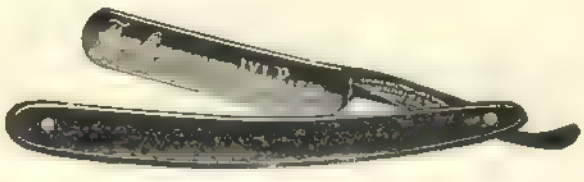
No. 01909. Hollow Point.

No. 02364. Square Point.

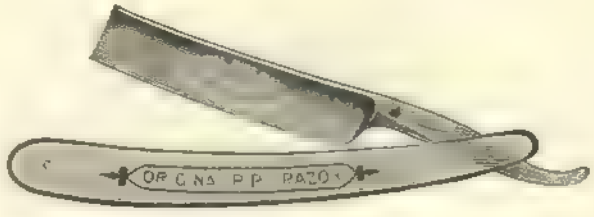
**No. 01909**—Blade, ½ inch. Hollow point Half concave, glazed. Black rubber oval handle. ..... Per dozen, $11.00

### Square Point. Genuine Pipe Razor.

**No. 02363**—Blade, ⅝ inch. Square point. Concave, glazed. Black rubber oval handle..... Per dozen, $17.50
**No. 02364**— " ¾ " " " " " " " " " " " 17 50
**No. 02363**— " ⅝ " Round " " " " " " " " " " 17.50



No. 0230. Round Point




No. 03553. Square Point.

**No. 0230**—Blade, ½ inch Round point. Concave, glazed. Black rubber flat handle ..... .....Per dozen, $15.00

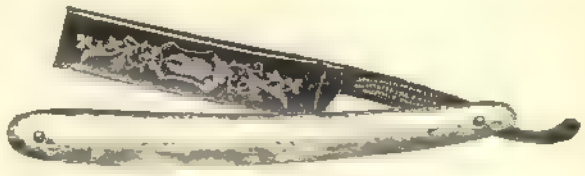
### Original Pipe Razor

**No. 03553**—Blade, ½ inch Square point. Half concave, glazed. Celluloid flat handle ..... ..... ..... .... ...Per dozen, $15.00
One-half dozen in box.

# RAZORS.

## GEORGE WOSTENHOLM & SON'S IXL.

No. 01563. Hollow Point.



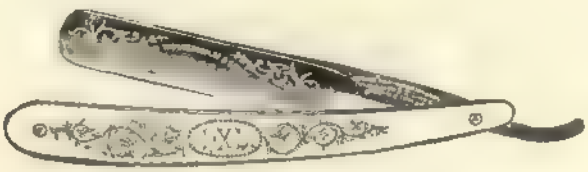
No. 01564. Square Point

**No. 01563**—Blade, ⅝ inch Hollow point. Concave, half crocus polished. White oval handle ..... Per dozen, $15.00
**No. 01564**— " ⅝ " Square " " " " " " " " " " " 15 00

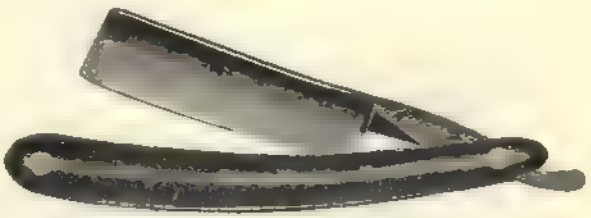
No. 0895. Round Point.

No. 01163. Square Point.

**No. 0895**—Blade, ⅝ inch. Round point. Concave, glazed. Celluloid oval handle, grained .. .....Per dozen, $18.00
**No. 01163**— " ⅝ " Square " Full concave, glazed. Black rubber oval handle..... " 18.00
**No. 01211**— " ⅝ " Hollow " Concave, full crocus polished. Black rubber oval handle..... " 18 00



No. 01324. Round Point.



No. 01461. Square Point.

**No. 01324**—Blade, ⅝ inch Round point. Concave, full crocus polished. Celluloid flat handle, engraved. .. ...Per dozen, $4 00

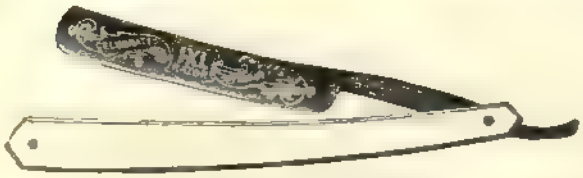
Fine Pipe.

**No. 01461**—Blade, ⅝ inch. Square point. Full concave, glazed. Black rubber oval handle... .. .. .. .....Per dozen, $22.00

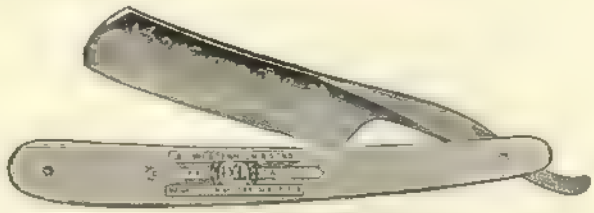
One half dozen in box.

# RAZORS.

## GEORGE WOSTENHOLM & SON'S IXL.



No. 01570. Round Point.



No. 02896. Round Point.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **No. 01570**—Blade, | ⅝ | inch. | Round point. | Concave, crocus polished. | White flat handle. | | | | | | Per dozen, | $27 00 |
| **No. 01570**— | " | ⅝ | " | " | " | " | " | " | " | " | " | 27 00 |
| **No. 02896**— | " | ¾ | " | " | " | " | full crocus polished. | Ivory flat handle | | | " | 36 00 |

No. 03546. Square Point

Fine Pipe

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **No. 03546**—Blade, | ⅝ | inch. | Square point. | Full concave, glazed. | Black rubber flat handle. | | | | | | Per dozen, | $30.00 |
| **No. 03546** | ¾ | " | " | " | " | " | " | " | " | " | " | 30 00 |
| **No. 03546**— | " | ⅝ | " | Round | " | " | " | " | " | " | " | 30 00 |
| **No. 03546**— | " | ¾ | " | " | " | " | " | " | " | " | " | 30 00 |

One-half dozen in box.

# RAZOR ASSORTMENTS.

## PERFECTION.

Fully Warranted.

Perfection razor assortments consist of six razors in box, with assorted handles as cut represents, each razor separate in a white leatherette case.

**No. 5415**—Blades, ⅝ inch. Square point. Celluloid handles.....Per dozen, $24.00

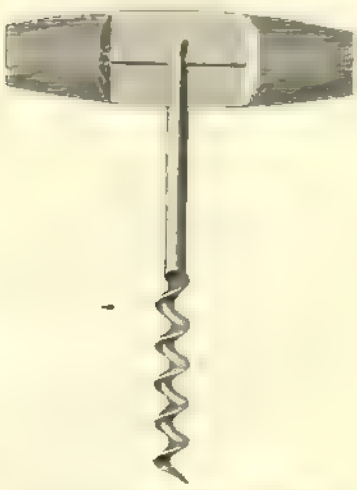
**No. 5206**—Blades, ¾ inch. Square point. Celluloid handles. " 24.00

No razors sold in less quantities than one-half dozen, assorted.

# Cork Screws.

## Walker's Patent.

No. 23.

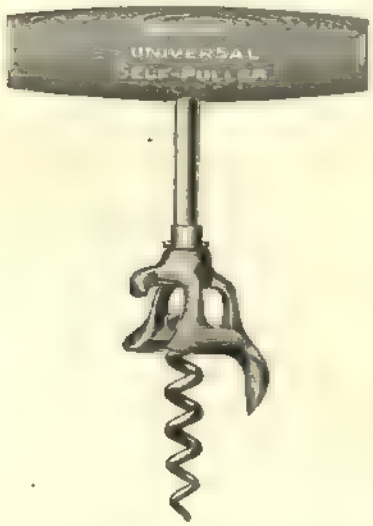


Cut Showing Fastening of Shank

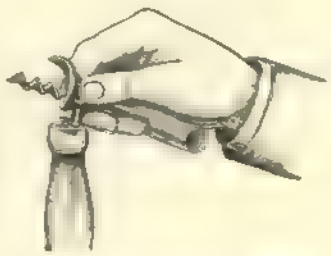
No. 38.

**No. 23** Maple Handle, Spiral Tempered Steel Wire . . . . . Per Dozen, $3 00

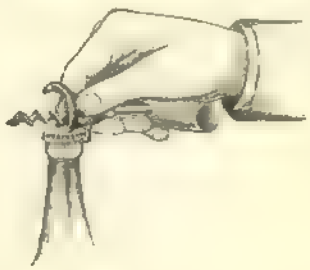
**No. 38**—Quickest Cork Screw, Polished Applewood Handle, Convex Twist, Tempered Steel, Nickeled. Specially Adapted to Rapid Work. Three Turns Insert Screw in the Cork . . . . . Per Dozen, 1 00




No. 16.



Removing Aluminum Stopper



Removing Crowns.

No. 17

**No. 16**—Self Pulling Cork Screw, with Crown and Stopper Opener and Wire Cutter. Applewood Handle, Coiled Wire Screw, Tempered Steel, Nickel Plated . . . . . Per Dozen, $5 00

**No. 17**—Self Pulling Cork Screw, with Crown and Stopper Opener and Wire Cutter. Applewood Handle, Convex Twist, Tempered Steel, Nickel Plated . . . . . Per Dozen, 6 00

Nos. 16 and 17 cover the greatest range of work a Cork Screw produced. These Screws are made of High Grade Special Steel carefully tempered and highly finished. The peculiar shape Worm does not cut or draw through the Cork. Handles are securely fastened to Shank of Screw, as shown in cut. Every Screw tested and warranted.

One in a Package; One Dozen in a Carton.

# Cork Screws.

## Walker's Patent.

### Spiral Spring.

No. 701.

**No. 701**—Spiral Spring Power Cork Screw, Applewood Handle, Movable Pin, which Allows Thread to Move up to the Handle. Nickel Plated.....Per Dozen, $3 50

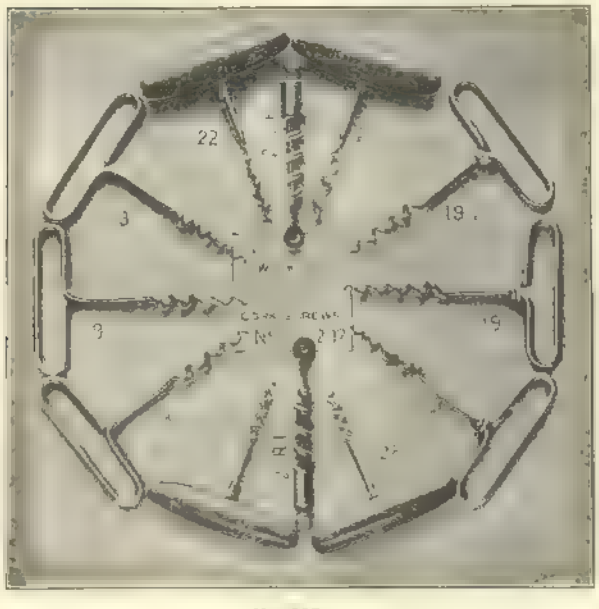
### Stag Handle.

No. 170.

**No. 170**—Self Pulling with Crown and Stopper Opener and Wire Cutter, Stag Handle, Special Temper, Extra Fine Nickel Finish, Warranted.....Per Dozen, $18 00

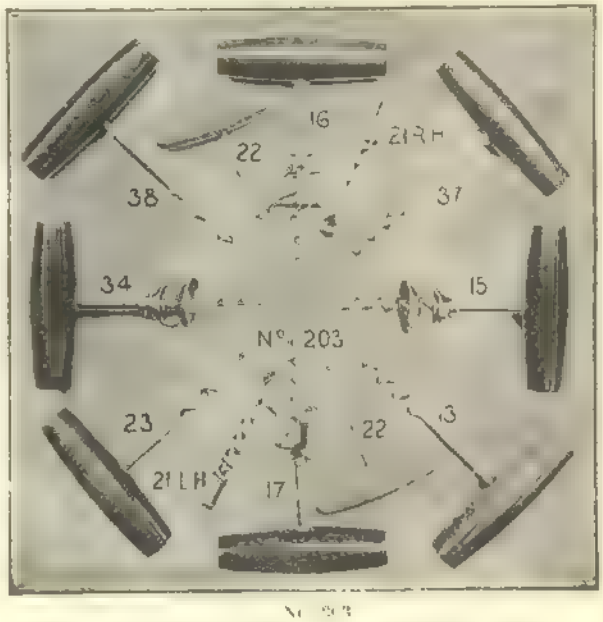
## Cork Screws Carded.

Every Screw Tested and Guaranteed.




No. 207

**No. 207**—Assorted, Two Pocket, Four Wood Handle, Six Wire Loop Handles, Twelve on a Card. . . . . .Per Card, $2 00




No. 203

**No. 203**—Assorted, Two Pocket, Four Self Pulling, Six Wood Handle, Assorted Screws, Twelve on a Card ....Per Card. $3 50

# Cork Screws.

Three-quarter Size of No. 246

Three-quarter Size Cut of No. 46

**No. 246**—Crucible Steel Coiled Wire Screw, Temper Warranted, Nickel Plated with Boxwood Handle..... Per Dozen, $2 50
**No. 46**—Norway " " " Nickeled Screw, Maple Handle..... " " 1 50

Three-quarter Size of No. 6146.

Three-quarter Size of No. 1246.

**No. 6146**—Norway Steel, Spiral Nickled Forged Screw, Maple Handle.....Per Dozen, $1 50
**No. 1246**—Crucible " " " " " Boxwood " ..... " " 2 50

All One Dozen in a Box

# Pocket Cork Screws.

No. 76.

No. 70

No. 1060

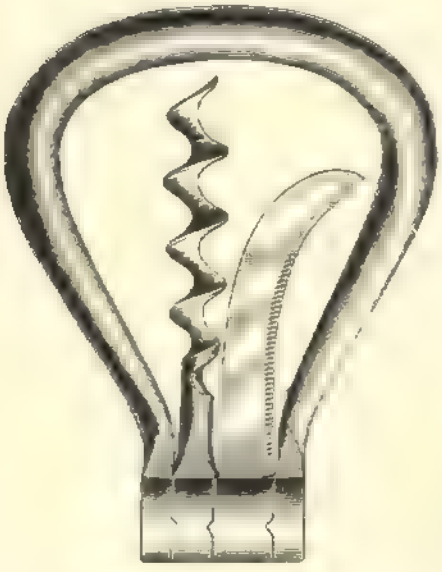
**No. 76** Folding Pocket, Norway Steel, Nickel Plated Screw and Handle ..... Per Dozen, $1 25

**No. 70** " " Improved Barrel Screw, Crucible Steel, Temper Warranted, with Brass Handle, Nickel Plated ..... Per Dozen, 3 00

**No. 1060** Folding Pocket, Crucible Steel Temper Warranted Nickel Plated ..... 2 50

All One Dozen in a Box

## Pocket.



Full size No. 1667

## Waiters'.

Full Size No. 6152

**No. 1667**—Folding Pocket, with Wire Cutter, Crucible Steel, Temper Warranted, Cast Handle, Nickel Plated ..... Per Dozen, $7 50

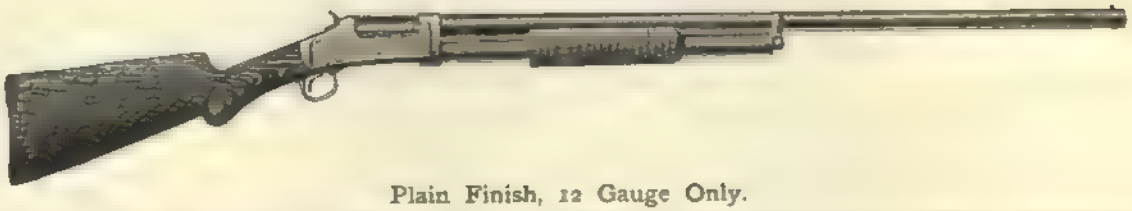
**No. 6152**—Waiters' Small and Compact for the Pocket, Crucible Steel Nickel Plated Screw, Maple Handle, will not pull through the cork, Draws Corks, Removes Crowns, Lifts Seals and Breaks Wire, Per Dozen, 4 50

One Dozen in a Box

# Repeating Shot Guns.

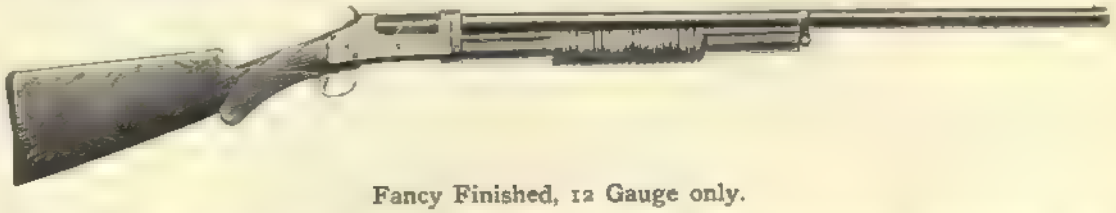
## Winchester.

### Model 1897.



**Plain Finish, 12 Gauge Only.**

**Model 1897**—12 Gauge, Six Shot, 30 and 32 in. Rolled Steel Barrel, Choke Bored, Pistol Grip, Stock and Forearm of Plain Walnut, Not Checkered, Weight about 7¾ lbs ..... Each, $25 00

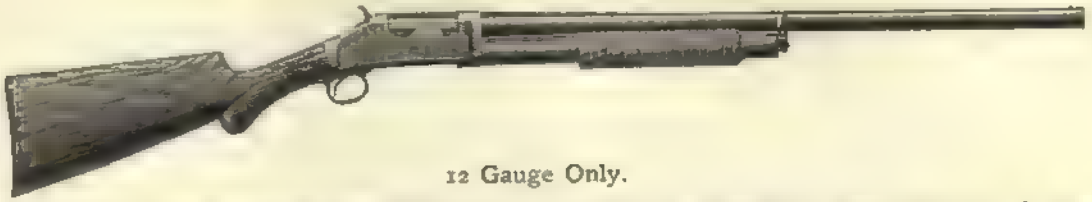


**Fancy Finished, 12 Gauge only.**

**Model 1897**—12 Gauge, Six Shot, 30 and 32 in. Fine Four Blade Damascus Barrel, Choke Bored, Fancy Walnut Stock, Pistol Grip Checked, Checked Rubber Butt, Weight about 7¾ lbs ..... Each, $62 00

## Winchester Brush Guns.

### Model 1897.



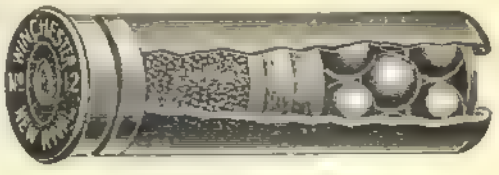
**12 Gauge Only.**

The Winchester "Brush" gun as its name implies is designed expressly for bird shooting in field and cover. It is particularly desirable gun for this kind of shooting, owing to its light weight and strong shooting qualities. The "Brush" gun is made with a 20-inch light weight rolled steel cylinder bore barrel. The magazine is shorter than that of the regular Model 1897 shotgun, holding four instead of five cartridges. The stock is made of plain wood, unchecked and has a small, well-shaped pistol grip with a rubber butt plate. Weight about 7 pounds. It is bored expressly to use either black or smokeless powder equally well and any load of any of the standard smokeless powders that can be properly loaded in a 2¾ inch 12 gauge shell can be used with perfect safety in this gun.

**Winchester Brush Gun**—1897 Model ..... Each, $27 00

## Winchester Riot Gun.

**Model 1897 "Riot" Gun.**




**Buckshot Cartridge.**

**12 Gauge Only.**

The Winchester Model 1897 "Riot" gun is made with a 20 inch rolled steel cylinder bore barrel, bored expressly to shoot buckshot. These guns are used as sentries in the U. S. Army, express messengers, watchmen, prison guards, train hands, and by many people for home defense. They are far superior to a revolver for shooting in the dark where aim is uncertain as a buckshot cartridge contains nine bullets to one contained by a revolver cartridge. The "Riot" gun has the same action as the regular Model 1897. The magazine holds five cartridges, which with one in the chamber, makes a total of six at the command of the shooter.

**Winchester Riot Gun**—1897 Model ..... Each, $25 00

For Component Parts for Model 1897, See Page 1084.

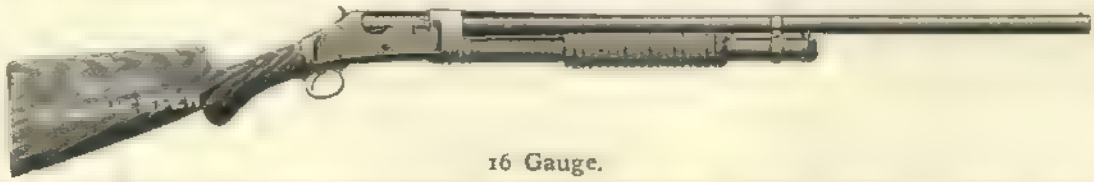
# Repeating Shot Guns.

## Winchester "Take Down."

### Model 1897.

Gun Taken Apart

The Winchester "Take Down" Repeating Shot Gun is the popular Winchester Model 1897, with a strong, simple serviceable and handy take-down system applied to it. This Gun can be taken apart and put together as easily and quickly as a double barreled shot gun, and can be carried in a Victoria case, packed in a trunk or rolled up in camp bedding. The take down system used on this gun is similar to the one used on Winchester "Take Down" rifles and which thorough and extensive trials have demonstrated to be fault less. The interrupted screw system—a feature found exclusively in Winchester "Take Down" Arms—is used on the "Take Down" Shot Gun. This permits the removal of the barrel from the receiver by a quarter turn. When taken apart, the stock and action of the gun remain in one piece, and the barrel, magazine and forearm in another, the last named parts being held together at the breech end by a ring, called the receiver extension.



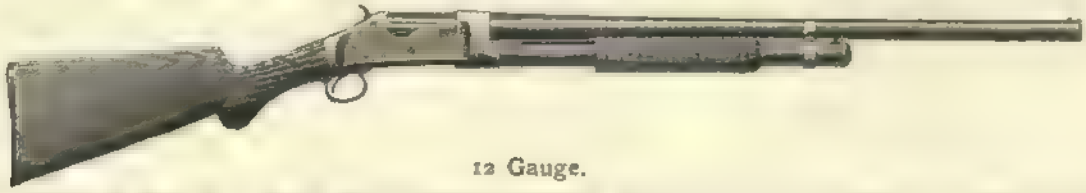
**16 Gauge.**

**Model 1897** 16 Gauge, Six Shot, 28 in. Rolled Steel Barrel, Choke Bored, Pistol Grip, Stock and Fore-arm of Plain Walnut, Not Checkered, Weight about 7½ lbs. . . . . Each, $27 00

**12 Gauge.**

**Model 1897**—12 Gauge, Six Shot, 30 and 32 in. Rolled Steel Barrel, Choke Bored, Pistol Grip, Stock and Fore-arm of Plain Walnut, Not Checkered, Weight about 7¾ lbs. . . . . Each, $27 00

## Winchester Model 1897 "Take Down" "Brush" Gun.



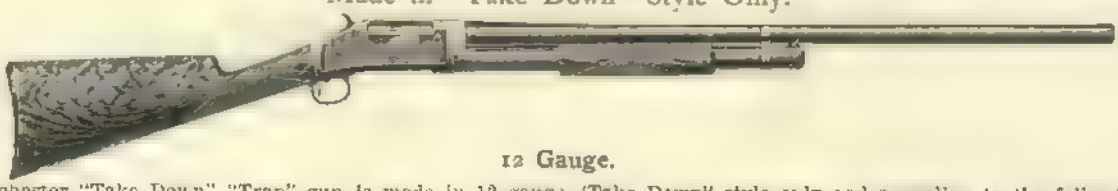
**12 Gauge.**

**Model 1897**—12 Gauge, Six Shot, 26 in. Rolled Steel Barrel, Choke Bored, Pistol Grip Stock and Fore-arm of Plain Wood, Not Checked, with Rubber Butt Plate, Weight about 7¼ lbs. . . . . Each, $29 00

The "Take Down" "Brush" gun is made according to the same specifications as the regular "Brush" gun, except it has a full length magazine, which increases the weight slightly.

## Winchester Model 1897 "Trap" Gun.

### Made in "Take Down" Style Only.



**12 Gauge.**

The Winchester "Take Down" "Trap" gun is made in 12 gauge "Take Down" style only and according to the following specifications. 30 inch rolled steel barrel, chambered for 12 gauge 2¾ inch shell, bored to shoot smokeless powder and to target 230 pellets, or over, of No. 7½ chilled shot, inside a 30 inch circle at 40 yards with a load of 3¼ drams of smokeless powder and 1¼ ounces of shot. Selected fancy walnut hand made, oil finished stock, with straight grip, checked, and checked rubber butt plate. The fore-arm is of fancy walnut, handsomely checked. The standard style of stock is 13¾ inches long, has a drop of 2¼ inches at heel and 1¾ inches at comb. The comb is heavy and rounding. The stock of this gun being hand made, any length or drop desired will be furnished without extra charge. Weight of gun about 7¾ lbs.

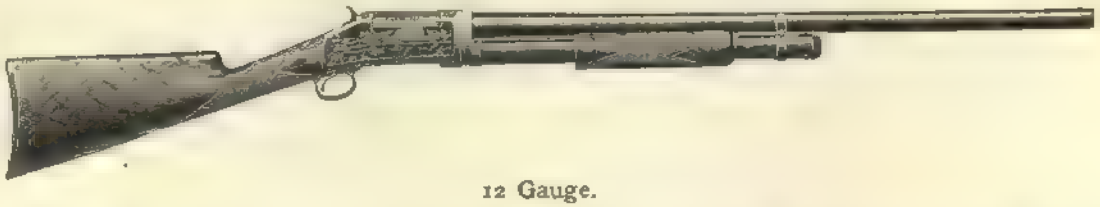
**Model 1897**—12 Gauge, Six Shot, "Trap" Gun . . . . . Each, $47 50

For Component Parts for Model 1897 "Take Down," See Page 1084.

# Repeating Shot Guns.

## Winchester Model 1897 Pigeon Gun.

Made In "Take Down" Style Only.



12 Gauge.

The Winchester Take Down' 'Pigeon' gun differs from the regular and 'Trap" "Take Down" guns in length of barrel, which is 28 instead of 30 inches, and in exterior finish The action is the same as the regular Model 1897 'Take Down" This gun will be made according to the same specifications as the 'Trap' gun, except the barrel will be 28 instead of 30 inches long and handsomely matted. Any length or drop of stock desired will be furnished without extra charge Weight about 7¾ lbs A large amount of hand work upon this gun and elaborate engraving on the frame.

**12 Guage**—6 Shot Pigeon Gun ..... ....Each, $100 00

## Winchester "Take Down" Shot Gun, Model 1897.

1. Pushing Out Magazine Locking Pin.

2. Unscrewing Magazine One-Quarter Turn.

### To Take the Gun Apart.

Push out the magazine locking pin (the large pin found at the front end of the magazine, which pin answers as a lever to unscrew the magazine) and unscrew the magazine one-quarter turn. Pull the magazine and action slide forward and, grasping the barrel and magazine just ahead of the receiver extension, and holding the action slide forward, unscrew the barrel one-quarter turn, the magazine turning with the barrel. Pull out the barrel from the receiver.

### To Put the Gun Together.

Grasp the barrel and magazine just ahead of the receiver extension and holding the action slide forward, insert the shank of the barrel into its place in the receiver in such a position that a quarter turn to the right will lock the barrel into the receiver Turn the barrel one quarter turn to the right Insert one finger of the right hand in the opening in the under side of the receiver and push up the carrier Turn the magazine to the extreme left and push the magazine into the receiver as far as it will go. Turn the magazine one-quarter turn to the right by means of the locking pin, and push in the pin Special care should be taken to hold the action slide well forward when inserting and screwing the barrel into the frame If the end of the action slide is allowed to protrude, it will jam against and scratch the receiver.

If the gun becomes loose at the joint by wear it may be readjusted in the following manner: Take the gun apart and remove the adjusting sleeve lock screw, found on the right hand side of the receiver extension. Draw out the adjusting sleeve lock By turning the adjusting sleeve back one or two notches the play between the receiver extension and the receiver will be taken up and the gun will go together without shaking as before Replace the adjusting sleeve lock and the adjusting sleeve lock screw This adjusting sleeve should be altered only when absolutely necessary.

3. Pulling Forward the Action Slide and Magazine.

4 Removing the Barrel from the Receiver by One-Quarter Turn

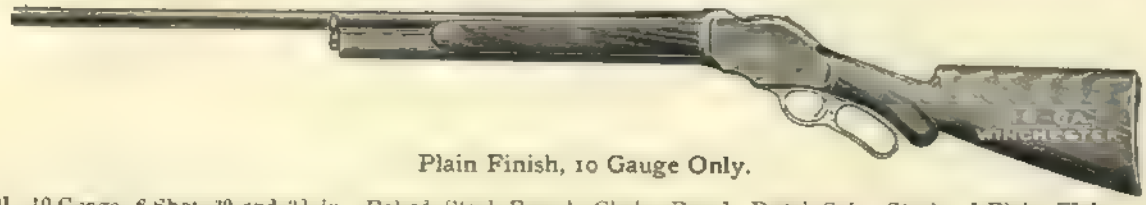
### To Dismount Parts Attached to Barrel.

Remove magazine band screws Remove magazine with action slide, action slide handle and magazine band on it Push down the spring in magazine locking pin and remove the magazine locking pin Remove magazine plug screws magazine plug, and magazine plug ring Remove magazine spring magazine follower, and magazine band Remove adjusting sleeve lock screw, found on the right side of receiver extension. Remove adjusting sleeve lock and unscrew adjusting sleeve. Assemble in reverse order.

# Repeating Shot Guns.

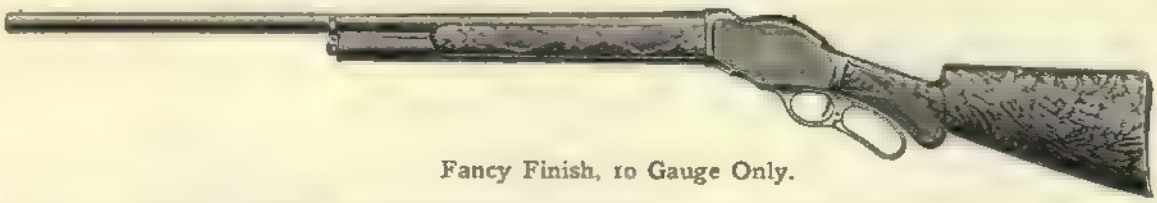
## Winchester Lever Action.

### Model 1901.



Plain Finish, 10 Gauge Only.

**Model 1901**—10 Guage, 6 Shot, 30 and 32 in. Rolled Steel Barrel, Choke Bored, Pistol Grip, Stock of Plain Walnut, Not Checkered, Weight about 9 lbs..... Each, $30 00
32 in Standard Length Barrel.

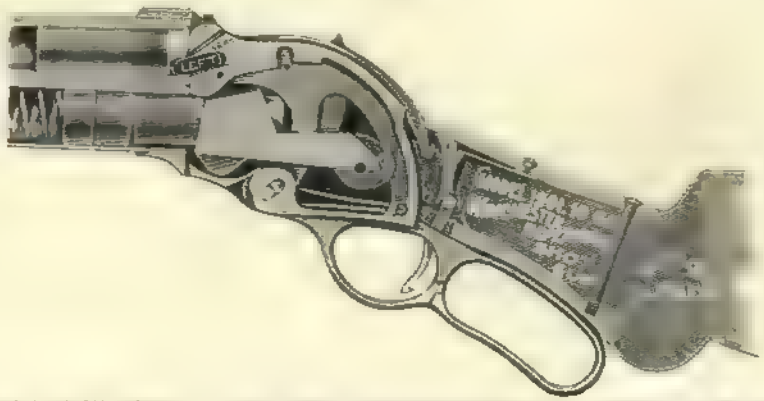


Fancy Finish, 10 Gauge Only.

**Model 1901**—10 Guage, 6 Shot, 30 and 32 in. Rolled Steel Barrel, Choke Bored, Fancy Walnut, Pistol Grip, Stock and Forearm Checkered, Weight about 9 lbs..... Each, $45 00
32 in. Standard Length Barrel.
For Component Parts for Lever Action Shot Gun, See Page 1083.

## Winchester Repeating Shot Gun Sytem.

### Lever Action.



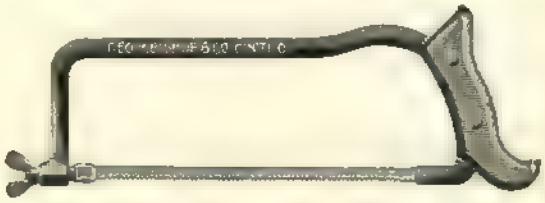
The operation of the Model 1901 Winchester Lever Action Repeating Shot Gun is simple and can be easily understood. To load the magazine throw down the lever and push five cartridges through the carrier into the magazine placing the sixth in the chamber. The forward and backward motion of the finger lever, which can be executed while the gun is at the shoulder, throws out the empty shell, raises a new cartridge from the magazine and places it in the chamber, and the gun is then ready to be fired.

## Extras for Winchester Shot Guns.

| | EACH |
|---|---|
| **Fancy Walnut Stock and Forearm, not Checkered** | $10.00 |
| **Checking Stock and Forearm** | 5.00 |
| **Extra Length or Drop of Stock, to Order** | 10 00 |
| **Fancy Checked Slide Handle, "Trap" or "Pigeon" Gun Grade** | 5.00 |
| **Rubber Butt Plate, Fitted to Gun** | 2.00 |
| **Good (3 Blade) Damascus Barrel, in place of Rolled Steel Barrel, Additional** | 15.00 |
| **Fine (4 Blade) Damascus Barrel, in place of Rolled Steel Barrel, Additional** | 20.00 |
| **Interchangeable Barrel, Rolled Steel, complete with Magazine and Forearm** | 15 00 |
| Interchangeable Barrel Rolled Steel, "Trap" Gun Grade, complete with Magazine and Fancy Checked Forearm | 20 00 |
| Interchangeable Barrel Rolled Steel Matted, Pigeon Gun Grade, complete with Magazine and Fancy Checked Forearm | 27 00 |
| Interchangeable Barrel, Good (3 Blade) Damascus Barrel, complete with Magazine and Forearm | 30 00 |
| Interchangeable Barrel Fine (4 Blade) Damascus Barrel, complete with Magazine and Forearm | 35.00 |
| **Matting Barrel** | 5.00 |

# SAWS.

## DE-HORNING.



**No. 1**—Japanned malleable iron frame. Beechwood handle. Complete, with blade 9½ inches long, ¼ inch wide. Weight, 2½ lbs... Per dozen $10.00

One-half dozen in box

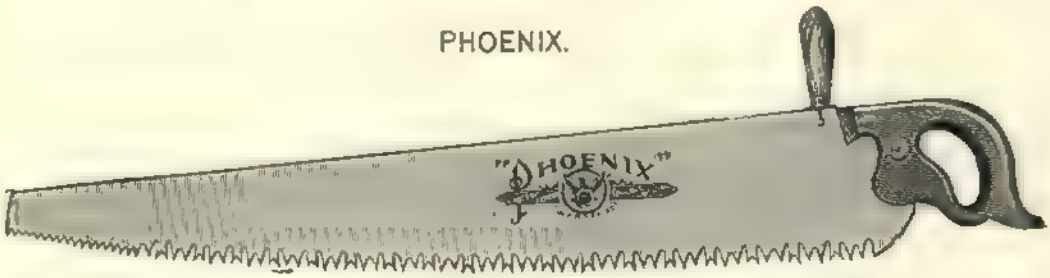
## ICE.

Beechwood handle. Length, 26 inches. Weight, 31 lbs... Per dozen, $21 00
Iron handle. Length, 26 inches. Weight, 37 lbs... " 23 00

One-third dozen in box

# ONE-MAN CROSS-CUT SAWS.

## PHOENIX.




Champion Tooth. Hand Filed. Hand Set and Sharpened. Warranted.

| Length, feet... | 3 | 3½ | 4 | 4½ | 5 | 5½ | 6 |
|---|---|---|---|---|---|---|---|
| Weight, lbs.. | 3 | 4 | 4¾ | 5¼ | 6½ | 7⅝ | 9 |
| Each... | $2 25 | 2 60 | 3.00 | 3 35 | 3 70 | 4 10 | 4 45 |

## DISSTON'S CHAMPION.

| Length, feet..... | 3 | 3½ | 4 | 4½ | 5 | 5½ | 6 |
|---|---|---|---|---|---|---|---|
| Weight, lbs | 3¼ | 4½ | 5 | 6 | 7 | 8 | 9¼ |
| Each..... | $2 25 | 2 60 | 3.00 | 3 35 | 3 70 | 4.10 | 4.45 |

One-quarter dozen in package.

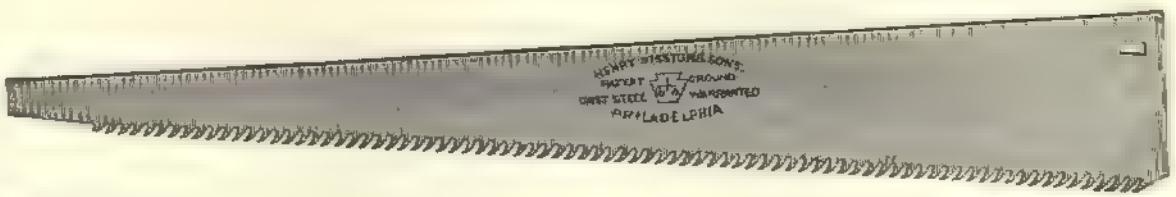
# ONE-MAN CROSS-CUT SAWS.

## DISSTON'S GREAT AMERICAN.

| Length, feet | 3 | 3½ | 4 | 4½ | 5 | 5½ | 6 |
|---|---|---|---|---|---|---|---|
| Weight, lbs | 3 | 3¼ | 5 | 6 | 7 | 8 | 9½ |
| Each | $2 55 | 2 75 | 3.25 | 3 65 | 4.10 | 4.55 | 5 00 |

One-quarter dozen in package

# PIT SAWS.




| Length, feet | 6½ | 7 | 7½ | 8 |
|---|---|---|---|---|
| Weight, lbs | | | | |
| Each | $6 50 | 7 00 | 7 50 | 8 00 |

# FALLING SAWS.

## INTERNATIONAL.

Special Steel. Tough Temper. Ground Even Gauge on Teeth and True Taper.

| Length, feet | 7 | 8 | 9 |
|---|---|---|---|
| Weight, lbs | 8½ | 10¾ | 13 |
| Each | $8 75 | 10 00 | 10 90 |

# CROSS-CUT SAWS.

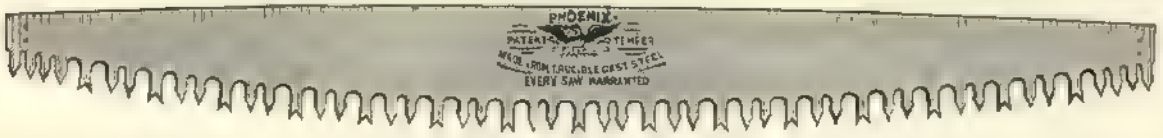
## INTERNATIONAL.

Special Steel. Tough Temper. Ground Even Gauge on Teeth and True Taper. Five Gauges Thinner on Back than on Tooth Edge.

| Length, feet | 6 | 6½ | 7 | 7½ | 8 |
|---|---|---|---|---|---|
| Weight, lbs | 8½ | 9¾ | 11 | 12½ | 13¾ |
| Each | $7.50 | 8.13 | 8 75 | 9 38 | 10 00 |

# CROSS-CUT SAWS.

## PHOENIX.




High Grade Crucible Steel Crescent Ground. Warranted. Five Gauges Thinner on Back than on Tooth Edge

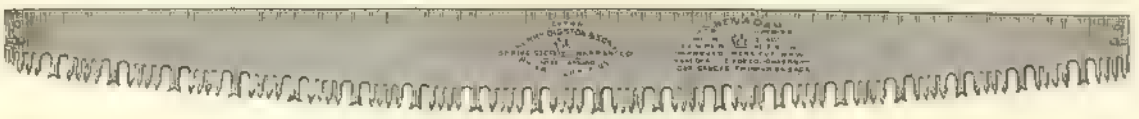
| | | | | | |
|---|---|---|---|---|---|
| Length, feet | 6 | 6½ | 7 | 7½ | 8 |
| Weight, lbs | 7½ | 8½ | 9 | 11 | 14¾ |
| Each | $6 00 | $6 50 | 7.00 | 7 50 | 8 00 |

## STERLING.

Extra Quality High Grade Steel. Five Gauges Thinner on Back than on Tooth Edge.

| | | | | | |
|---|---|---|---|---|---|
| Length, feet | 6 | 6½ | 7 | 7½ | 8 |
| Weight, lbs | 8½ | 9¾ | 11 | 12½ | 13¼ |
| Each | $7.50 | 8.13 | 8.75 | 9 38 | 10 00 |

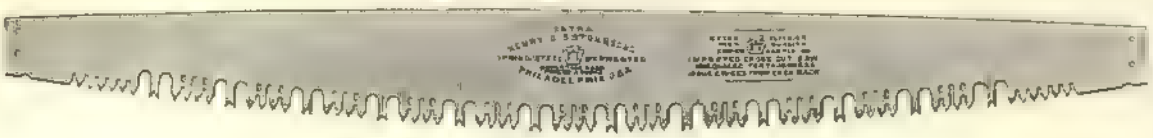
## NEVADA.




Extra Quality High Grade Steel. Four Gauges Thinner on Back than on Tooth Edge.

| | | | | | |
|---|---|---|---|---|---|
| Length, feet | 6 | 6½ | 7 | 7½ | 8 |
| Weight, lbs | 8 | 9 | 9½ | 10⅜ | 11¼ |
| Each | $6.60 | 7.15 | 7.70 | 8 25 | 8 80 |

## PERFORMATED LANCE TOOTH.

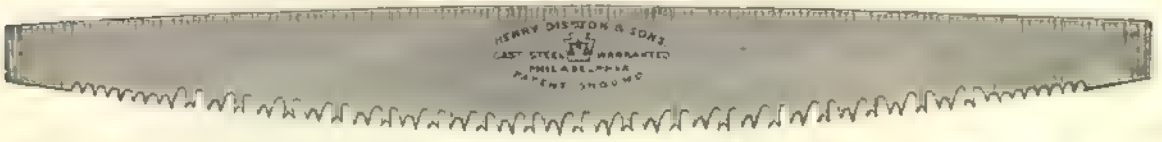


Superior Quality Steel. Four Gauges Thinner on Back than on Tooth Edge

| | | | |
|---|---|---|---|
| Length, feet | 6 | 6½ | 7 |
| Weight, lbs | 6 | 7½ | 8½ |
| Each | $4 08 | 4 42 | 4 78 |

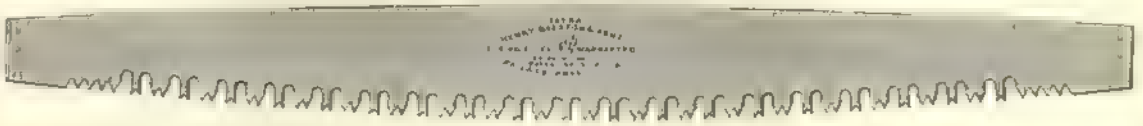
# CROSS-CUT SAWS.

## CHAMPION TOOTH.



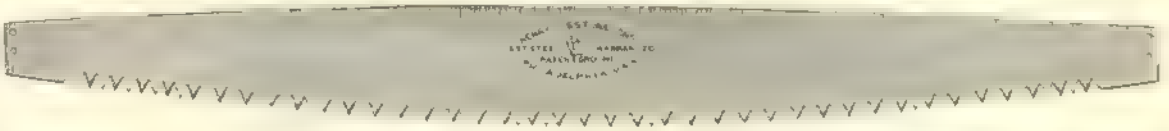
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Length, feet | 5 | 5½ | 6 | 6½ | 7 | 7½ | 8 |
| Weight, lbs | 5½ | 6¼ | 8 | 8¾ | 10 | 11¾ | 14 |
| Each | $2 70 | 2 97 | 3.24 | 3 51 | 3 78 | 4 05 | 4 32 |

## TUTTLE TOOTH.



| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Length, feet | 5 | 5½ | 6 | 6½ | 7 | 7½ | 8 |
| Weight, lbs | 5 | 6 | 7½ | 8½ | 9 | 11½ | 14 |
| Each | $3 00 | 3.30 | 3 60 | 3 90 | 4 20 | 4 50 | 4 80 |

## TENON TOOTH.



| | | | | |
|---|---|---|---|---|
| Length, feet | 4½ | 5 | 5½ | 6 |
| Weight, lbs | 4½ | 5¼ | 6 | 7 |
| Each | $2 61 | 2 90 | 3 19 | 3 48 |

# SAW BLADES.

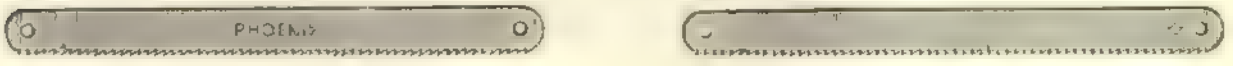
## BRACKET.

These blades are suitable for cutting wood, bone, shell and soft metals.

**Nos. 00 to 6**—Length, 5 inches. Average weight, 1¾ ounces.....Per gross, $1 50
**No. 7** — " 5 " " " 1½ " " 1 75

One gross in package.

## HACK.




Phoenix. Star.

| | | | | | |
|---|---|---|---|---|---|
| Length, inches | 8 | 9 | 10 | 12 | 14 |
| **Phoenix** | per dozen $0 65 | 70 | 85 | 1 05 | .. |
| **Star** | 65 | 70 | 85 | 1 05 | |
| **Griffin** | 90 | 95 | 1 00 | 1 15 | .. |
| **Stub's** | " | | 4 50 | 6 00 | 7 00 |

Average weight, ½ lb. Six dozen in box.

# SAW BLADES.

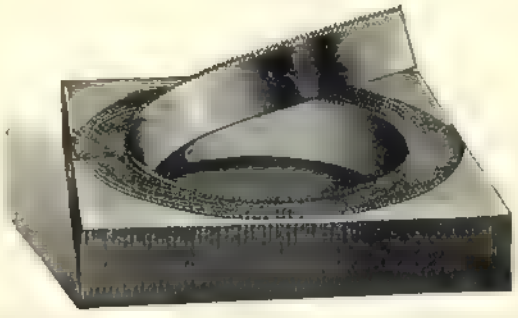
## BUTCHERS'.

| Length inch | 18 | 20 | 22 | 24 | 26 |
|---|---|---|---|---|---|
| **No. 3**—Clock-spring. Blued. ¾ inch wide.....Per dozen, | $4.25 | 4.50 | 4.75 | 5 00 | 5 25 |
| **No. 4**—Bright. 1 inch wide..... " | 4.00 | 4 25 | 4.50 | 4 75 | . |
| **No. 5**—Star. ¾ inch wide. . . . . " | . .... | . .... | . | 1 50 | 1 75 |

Average weight, 1¼ lbs. One dozen in package.

# SAW BLADES.

## IN COILS.



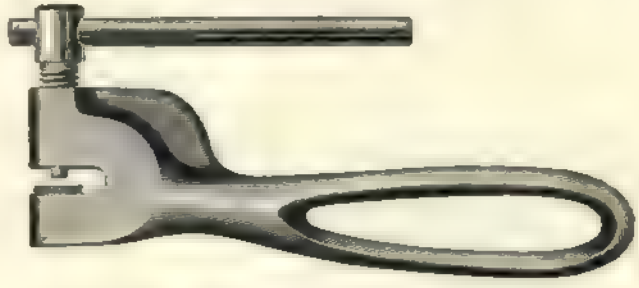
The manner in which these blades are put up, as shown in the illustration, cannot fail to commend itself to every dealer in these tools. Instead of being obliged to carry a dozen different lengths in stock, he can carry these coils, and cut off any length desired, always sure of being able to furnish just the right length.

They are made from the finest quality of spring steel, tempered, ground, polished, and warranted. They are filed, set and refiled after setting and consequently ready for immediate use.

They are made with 11 teeth to the inch, correctly shaped to insure their free cutting.

**No. A1**—Blued. 50 feet. ¾ inch wide. Weight, 3 lbs.....Per coil, $5.00

# SAW PUNCHES.



The punching of the necessary holes in butchers' saws has been the source of much annoyance to users of, and dealers in, this article. None of the better class of butchers' saw blades are punched when they leave the factory. There is so much variation in the various styles of frames of apparently the same length that it would be impossible to do it and have them come right. This little device suggested itself and came into existence because of the above condition, and needs only to be seen to be appreciated.

The frame is made of malleable iron, nickel-plated and polished. The screw and cross-bar are made of steel, nicely finished. The die and punch are made from the finest quality of tool steel, carefully tempered.

**No. 200**—Weight, 6 lbs. ...Per dozen, $10.00

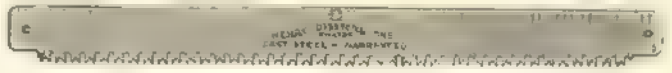
# SAW BLADES.

## WOOD.

**No. 4**—Cast steel. Set and sharpened. Length, 30 inches..... Per dozen, $4 00

**Sterling**—Blued. Cast steel. Improved round-breasted. Patent ground and tempered. Set and sharpened. Length, 30 inches.....Per dozen, $7 50

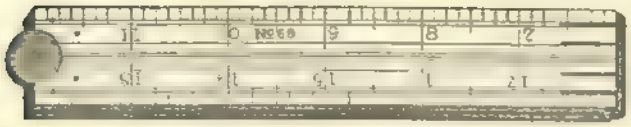
**No. 6**—Cast steel. Patent ground and tempered. Set and sharpened. Length, 30 inches.....Per dozen, $7 50



**No. 77**—Cast steel. Ground and tempered. Patent tooth. Set and sharpened. Length, 30 inches..... Per dozen, $8 25

Average weight, 7½ lbs. One dozen in box

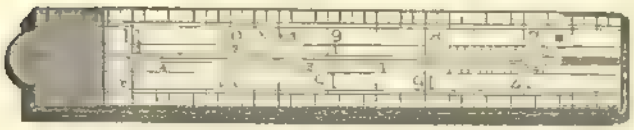
# Boxwood Rules.



Two Foot, Four Fold.

**No. 68**—Round Joint, Middle Plates, 8ths and 16ths in., 1 in. Wide, Weight per Dozen, 1½ lbs .....Per Dozen, $2 50

One Dozen in a Box.

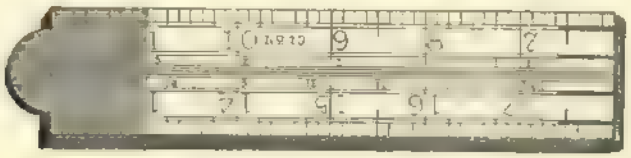


Two Foot, Four Fold.

**No. 61**—Square Joint, Middle Plates, 8ths and 16ths in., 1 in. Wide, Weight per Dozen, 2 lbs.....Per Dozen, $3 00

**No. 84**—Square Joint, Half Brass Bound, 8ths, 10ths, 12ths and 16ths in., Drafting Scale, 1 in. Wide, Weight per Dozen, 2½ lbs.....Per Dozen, 6 50

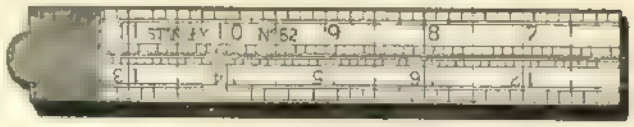
**No. 60**—Double Arch Joint, Full Brass Bound, 8ths, 10ths, 12ths and 16ths in., Drafting Scale, 1 in. Wide, Weight per Dozen, 3 lbs .....Per Dozen, 10 50



Two Foot, Four Fold.

**No. 70**—Square Joint, Middle Plates, 8ths and 16ths in., Drafting Scale, 1⅜ in. Wide, Weight per Dozen, 3½ lbs., Per Dozen, $4 00

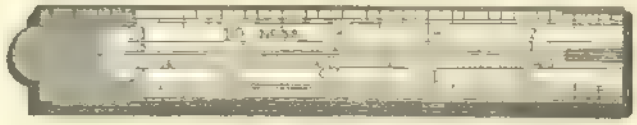
**No. 72½**—Square Joint, Full Brass Bound, 8ths, 10ths and 16ths in., Drafting Scale, 1⅜ in. Wide, Weight per Dozen, 3½ lbs.....Per Dozen, 9 00



Two Foot, Four Fold.

**No. 62**—Square Joint, Full Brass Bound, 8ths, 10ths, 12ths and 16ths in., Drafting Scale, 1 in. Wide, Weight per Dozen, 3 lbs .....Per Dozen, $8 00

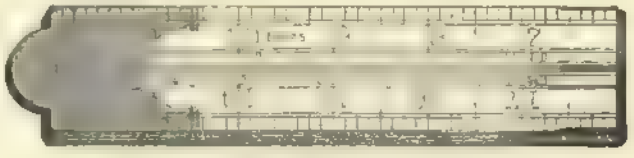
**No. 62½**—Square Joint, Full Brass Bound, 8ths, 10ths, 12ths and 16ths in., ¾ in. Wide, Weight per Dozen, 2½ lbs., .....Per Dozen, 8 00



Two Foot, Four Fold.

**No. 51**—Arch Joint, Middle Plates, 8ths, 10ths, 12ths and 16ths in., Drafting Scale, 1 in. Wide, Weight per Dozen, 2 lbs .... ..... Per Dozen, $3 25

**No. 54**—Arch Joint, Full Brass Bound, 8ths, 10th, 12ths and 16ths in., Drafting Scale, 1 in. Wide, Weight per Dozen, 3 lbs. .....Per Dozen, 8 50



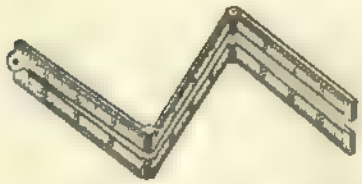
Two Foot, Four Fold.

**No. 76**—Arch Joint, Full Brass Bound, 8ths, 10ths and 16ths in., Drafting Scale, 1⅜ in. Wide, Weight per Dozen, 3 lbs., .....Per Dozen, $10 00

**No. 79**—Square Joint, Edge Plates, 12ths and 16ths in., Board Measure and Drafting Scales, 1⅜ in. Wide, Weight per Dozen, 3 lbs .....Per Dozen, 6 00

All Above Half Dozen in a Box.

# Boxwood Rules.



Two Feet, Six Fold.

**No. 58**—Arch Joint, Edge Plates, 8ths, 10ths, 12ths and 16ths in., ¾ in. Wide, Weight per Dozen, 1½ lbs.....Per Dozen, $6 50

Three Feet, Four Fold.

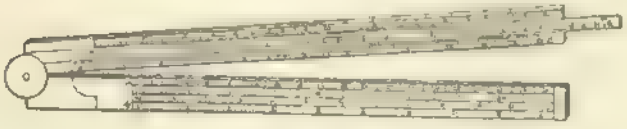
**No. 66½**—Arch Joint, Middle Plates, Four Fold, 8ths and 16ths in., 1 in. Wide, Weight per Dozen, 2½ lbs., Per Dozen. 5 00

**No. 66½**—Arch Joint, Middle Plates, Four Fold, 8ths and 16ths, 1 in. Wide, Full Brass Bound, Weight per Dozen, 3½ lbs.....Per Dozen, 5 00

## Blindman's Rule.

Two Feet, Four Fold.

**No. 7**—Square Joint, Edge Plated, 8ths and 16ths, 1⅜ in. Wide, Weight per Dozen, 3 lbs.....Per Dozen, $11 00



Two Feet, Two Fold, Slide.

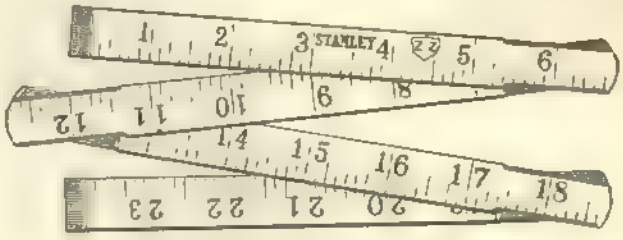
**No. 12**—Arch Joint, Bitted, Gunter's Slide, 8ths, 10ths and 16ths in., 100ths Ft., Drafting and Octagon Scales, 1½ in. Wide, Weight per Dozen, 3 lbs., .....Per Dozen, $9 00

**No. 18**—Square Joint, 8ths, and 16ths in., 1½ in. Wide.....Per Dozen, 3 50

One Foot, Four Fold.

**No. 69**—Round Joint, Middle Plates, 8ths and 16ths in., ⅝ in. Wide, Weight per Dozen, ⅝ lb.....Per Dozen, $1 75

One Dozen in a Box.




Zig-Zag Rule, ⅝ in. Wide.

Blued Steel Joints and Tips, Rigid When Open.

| Nos | 02 | 03 | 04 | 05 | 06 |
|---|---|---|---|---|---|
| Length, feet | 2 | 3 | 4 | 5 | 6 |
| Weight per Dozen | 2 | 2½ | 3 | 3¼ | 3½ |
| Per Dozen | $2 00 | 3 00 | 4 00 | 5 00 | 6 00 |

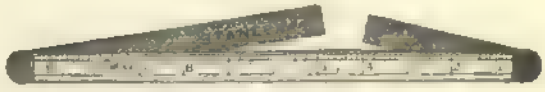
These Rules are made of flexible hardwood, with plated steel joints and tips, each joint containing a stiff spring which holds the Rule rigid when open.

## Architects' Rule.

Two Feet, Four Fold.

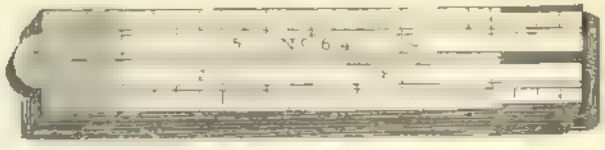
**No. 53**—Arch Joint, Edge Plates, 8ths, 10ths, 12ths and 16ths in., with Inside Beveled Edges and Architects' Drafting Scales, 1 in. Wide, Weight per Dozen, 3 lbs.....Per Dozen, $7 50

## Ship Carpenters' Bevel.



**No. 42**—Boxwood, Double Tongue, 8ths and 16ths in., Weight per Dozen, 3¾ lbs., Per Dozen, $4 00

All Above Half Dozen in a Box



One Foot, Four Fold.

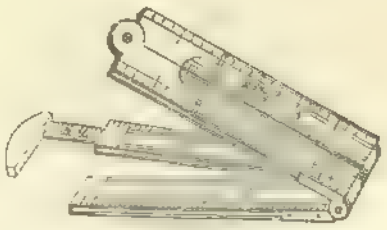
**No. 65**—Square Joint, Middle Plates, 8ths and 16ths in., ⅝ in. Wide, Weight per Dozen, ½ lb.....Per Dozen, $2 00

**No. 65½**—Square Joint, Full Brass Bound, 8ths and 16ths in., ⅝ in. Wide, Weight per Dozen, 1 lb.....Per Dozen, 5 50

Half Dozen in a Box

# Boxwood Caliper Rules.

No.



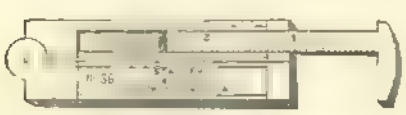
No. 32

**One Foot, Four Fold, Caliper.**

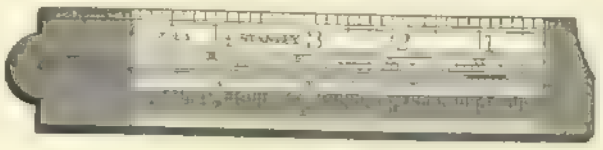
**No. 3** Caliper, Square Joint, Full Brass Bound, 8ths and 16ths in., ⅝ in. Wide, Weight per Dozen, 1¼ lbs ..... Per Dozen, $12 00

**No. 32**—Caliper, Arch Joint, Edge Plates, 8ths, 10ths, 12ths and 16ths in., 1 in. wide, Weight per Dozen, 1½ lbs ..... Per Dozen, 6 00

**No. 32½**—Caliper, Arch Joint, Full Brass Bound, 8ths, 10ths, 12ths and 16ths in., 1 in. Wide, Weight per Dozen, 1½ lbs ..... Per Dozen, 10 00



No. 36



No. 36½

**Six Inch, Two Fold, Caliper.**

**No. 36**—Caliper, Square Joint, 8ths, 10ths, 12ths and 16ths in., ⅞ in. Wide, Weight per Dozen, 1¾ lbs ..... Per Dozen, $3 50

**One Foot, Two Fold, Caliper.**

**No. 36½**—Caliper, Square Joint, Two Fold, 12 inch, 8ths, 10ths, 12ths and 16ths in., 1⅜ in. Wide, Weight per Dozen, 2¼ lbs..... Per Dozen, $6 00

# Ivory Rules.

No. 38.

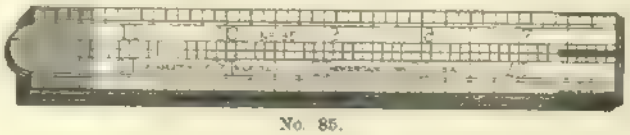
**Six Inch, Two Fold, Caliper.**

**No. 38**—Square Joint, 8ths, 10ths, 12ths and 16ths in., ⅞ in Wide, Weight per Dozen, 1¾ lbs .. Per Dozen, $15 00

No. 40.

**One Foot, Four Fold, Caliper.**

**No. 40**—Square Joint, German Silver Bound, 8ths and 16ths in., ⅞ in Wide, Weight per Doz., 2 lbs. Per Dozen, $44 00



No. 85.

**Two Feet, Four Fold.**

**No. 85**—Square Joint, German Silver, Edge Plates, 8ths, 10ths, 12ths and 16ths in., ⅞ in Wide, Weight per Dozen, 2 lbs ..... Per Dozen, $54 00

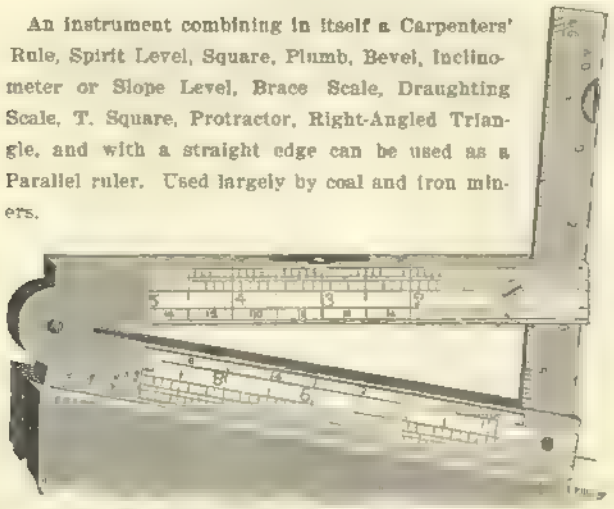
**No. 86½**—Arch Joint, German Silver, Edge Plates, 8ths, 10ths, 12ths and 16ths in., with Inside Beveled Edges, Architects' Drafting Scales, 1 in. Wide, Weight per Dozen, 2½ lbs ..... Per Dozen, 96 00

**No. 87**—Arch Joint, German Silver Bound, 8ths, 10ths, 12th and 16ths in., Drafting Scales, 1 in. Wide, Weight per Dozen, 2½ lbs..... Per Dozen, 80 00

All Above Half Dozen in a Box.

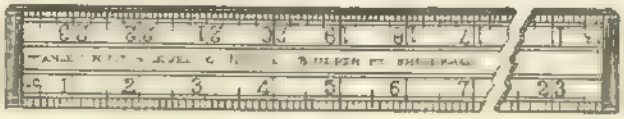
# Stephens' Patent Combination Rule.

An instrument combining in itself a Carpenters' Rule, Spirit Level, Square, Plumb, Bevel, Inclinometer or Slope Level, Brace Scale, Draughting Scale, T. Square, Protractor, Right-Angled Triangle, and with a straight edge can be used as a Parallel ruler. Used largely by coal and iron miners.



**Combination**—One Foot, Two Fold, Square Joint, Bound, Level, Square, Plumb, etc., Weight per Dozen, 3 lbs. . Per Dozen, $40 00
Half Dozen in a Box.

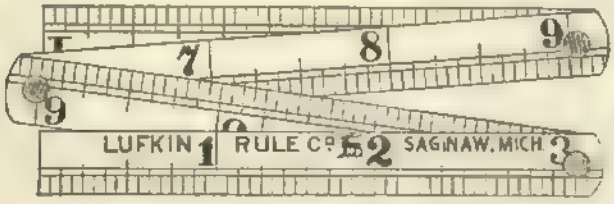
# Pattern Makers' Shrinkage Rule.



Two Fold.

**No. 31**—Boxwood, 8ths and 16ths of in., 24½ in. Long, Weight per Dozen, 4 lbs. . . Per Dozen, $18 00
Half Dozen in a Box.

# Hardened Steel Rules.




Rule in Leather Case.

| | | Rules Only. | Rules and Cases |
|---|---|---|---|
| **No. 41**—1 Foot Folding Pocket, ¾ in. Wide, 4 in. Joints, 3 Fold . . . | Per Dozen, | $4 00 | $5 50 |
| **No. 41**—2 " " " ¾ " " 4 " " 6 " . . . . . | " " | 7 50 | 9 50 |

One Dozen in a Box.

Two Feet, Two Fold.

**No 80**—2 Feet, Folding, ¾ in. × 21 Gauge, 12 in. Joints, 16ths of inch on One Side, 8ths on the Other, Weight per Dozen, 3 lbs., . . . . Per Dozen, $10 00

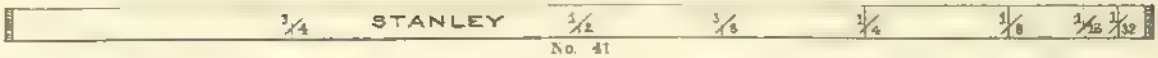
# Brass Rule.

Two Feet, Two Fold.

**No. 1085**—Brass, Graduated in 8ths and 16ths, ¾ in. Wide, Weight per Dozen, 3 lbs. . . . . Per Dozen, $9 00
This Rule is Especially Adapted for Blacksmiths
One Dozen in a Box.

# Miscellaneous Rules.

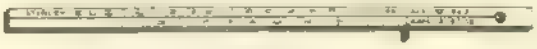
## Yard Stick.




No. 41

**No. 41** Brass Tips, Polished, Weight per Dozen, 5 lbs. . . . . Per Dozen, $3 50

## Wantage Rod.



No. 44

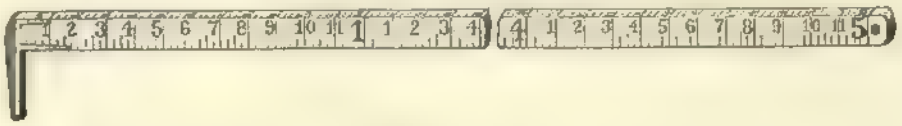
**No. 44**—Wantage Rod, has Eight Tables, or Lines, for Barrels of 16, 23, 32, 42, 48, 84, 110 and 120 Gallons, Weight per Dozen, 8 lbs . . . . . Per Dozen, $5 00

## Gauging Rod.

No. 45.

**No. 45**—Gauging Rod, is Graduated in Wine Measure up to 120 Gallons on One Side, and in Inches and Parts of Inches on the Other Sides, Weight per Dozen, 15 lbs . . . . . Per Dozen, $7 00

## Freight Measuring Sticks.



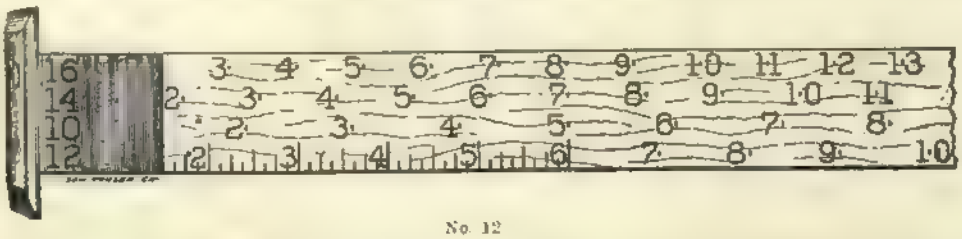
Nos. 15 and 16.

**No. 15**—5 ft., with Brass Hook, Graduated in inches and ¼ inches . . Per Dozen, $18 00
**No. 16**—6 " " " " " " " " ¼ " . . . . . " " 24 00

## Board Rules.

No. 2.

**No. 2**—3 Tier, 3 ft. Long, Extra Heavy Brazed Head, Weight per Dozen, 15 lbs . . . . . Per Dozen, $25 00



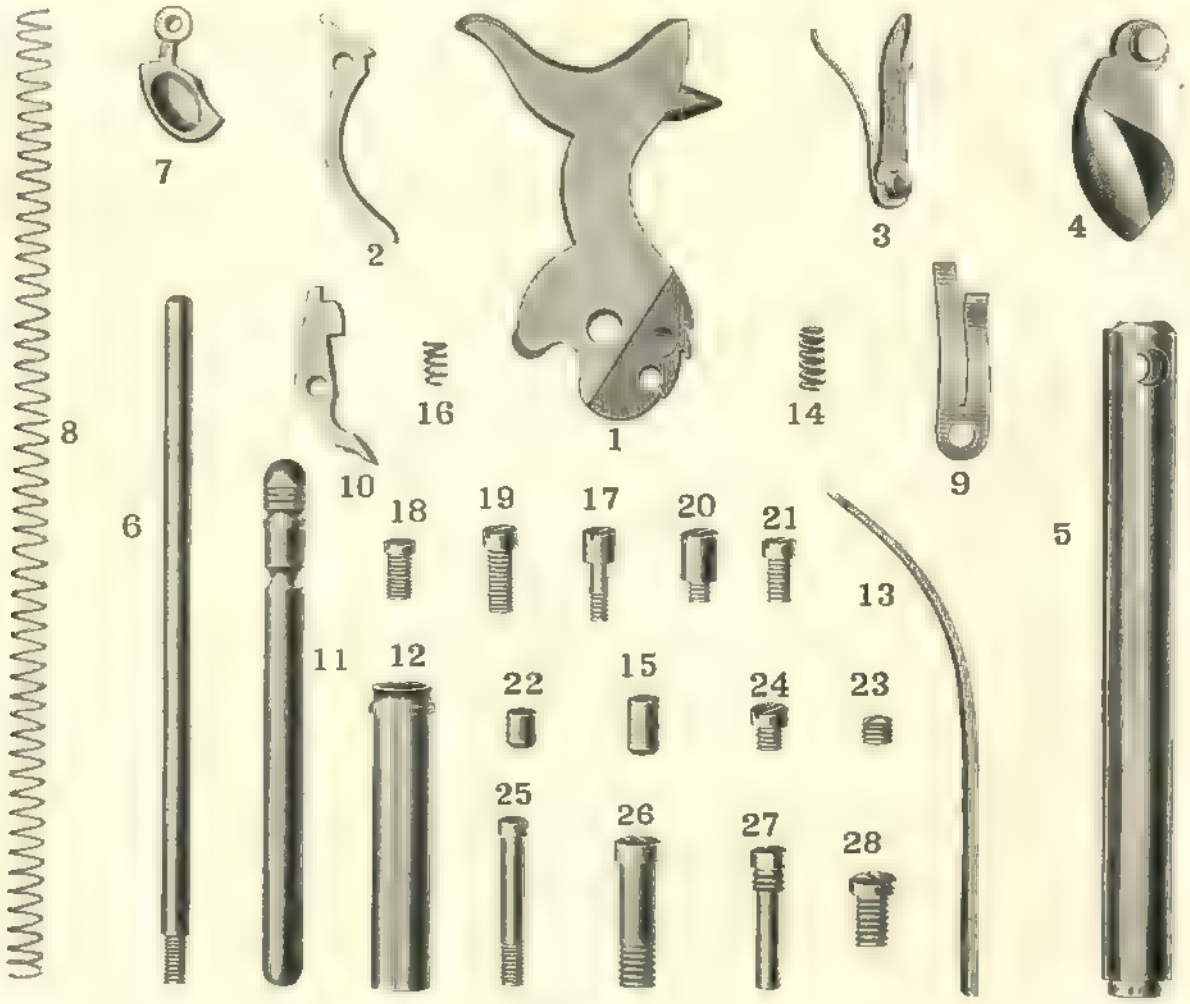
No. 12

**No. 12**—4 Tier, 3 ft. Long, Extra Heavy Brazed Head, with Brass Plates, Weight per Dozen, 18 lbs. . . . . Per Dozen, $28 00

All Above Packed as Ordered

# Component Parts.

## Colt's Single Action Army and Bisley Model Revolvers.



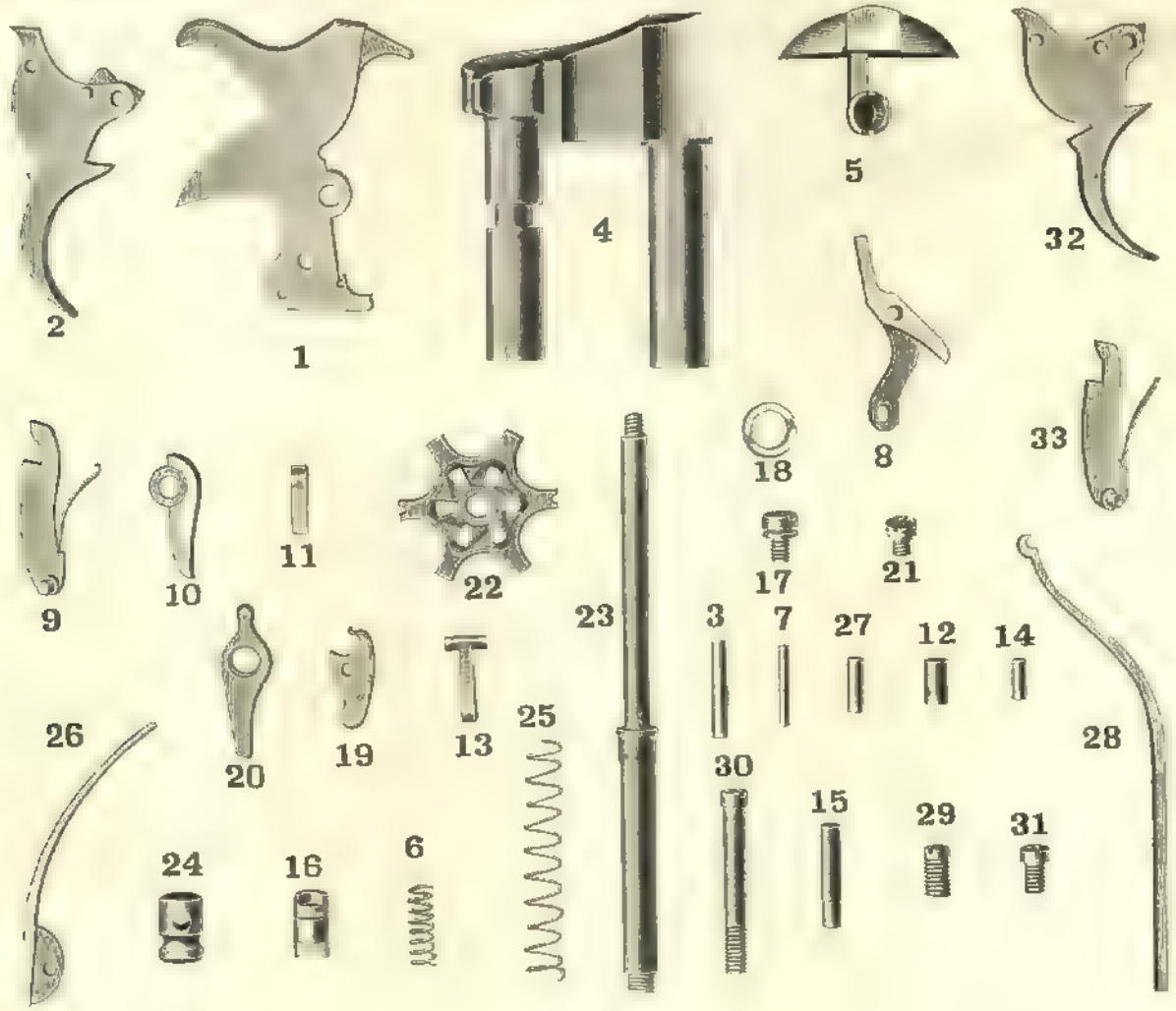

### Price List.

| Nos. | | Each. |
|---|---|---|
| 1 | Hammer | $0 85 |
| 2 | Trigger | 22 |
| 3 | Hand and Hand Spring | 27 |
| 4 | Gate | 1 00 |
| 5 | Ejector Tube | 1 50 |
| 6 | Ejector Rod | 27 |
| 7 | Ejector Head | 50 |
| 8 | Ejector Spring | 12 |
| 9 | Sear and Bolt Spring | 08 |
| 10 | Bolt | 28 |
| 11 | Base Pin | 42 |
| 12 | Base Pin Bushing | 40 |
| 13 | Mainspring | 35 |
| 14 | Gate Spring | 03 |
| 15 | Base Pin Catch | 05 |
| 16 | Base Pin Catch Spring | 05 |
| 17 | Base Pin Catch Screw | 05 |
| 18 | Front Guard Screw | 05 |
| 19 | Rear Guard Screw | 05 |

| Nos | | Each |
|---|---|---|
| 20 | Ejector Tube Screw | $0 05 |
| 21 | Back Strap Screw | 05 |
| 22 | Gate Catch | 02 |
| 23 | Gate Catch Screw | 05 |
| 24 | Sear and Bolt Spring Screw | 05 |
| 25 | Stock Screw | 05 |
| 26 | Hammer Screw | 05 |
| 27 | Trigger and Bolt Screw | 05 |
| 28 | Mainspring Screw | 05 |
| | Lock Frame | 6 66 |
| | Barrel | 3 00 |
| | Barrel Sight | 25 |
| | Cylinder | 3 00 |
| | Firing Pin | 10 |
| | Trigger Guard | 1 65 |
| | Back Strap | 1 25 |
| | Stocks, per Pair | 75 |
| | Escutcheons, per Set | 05 |
| | Recoil Plate | 05 |

# Component Parts.

## Colt's New Army and New Navy Double Action Revolvers, .38 and .41 Calibers.



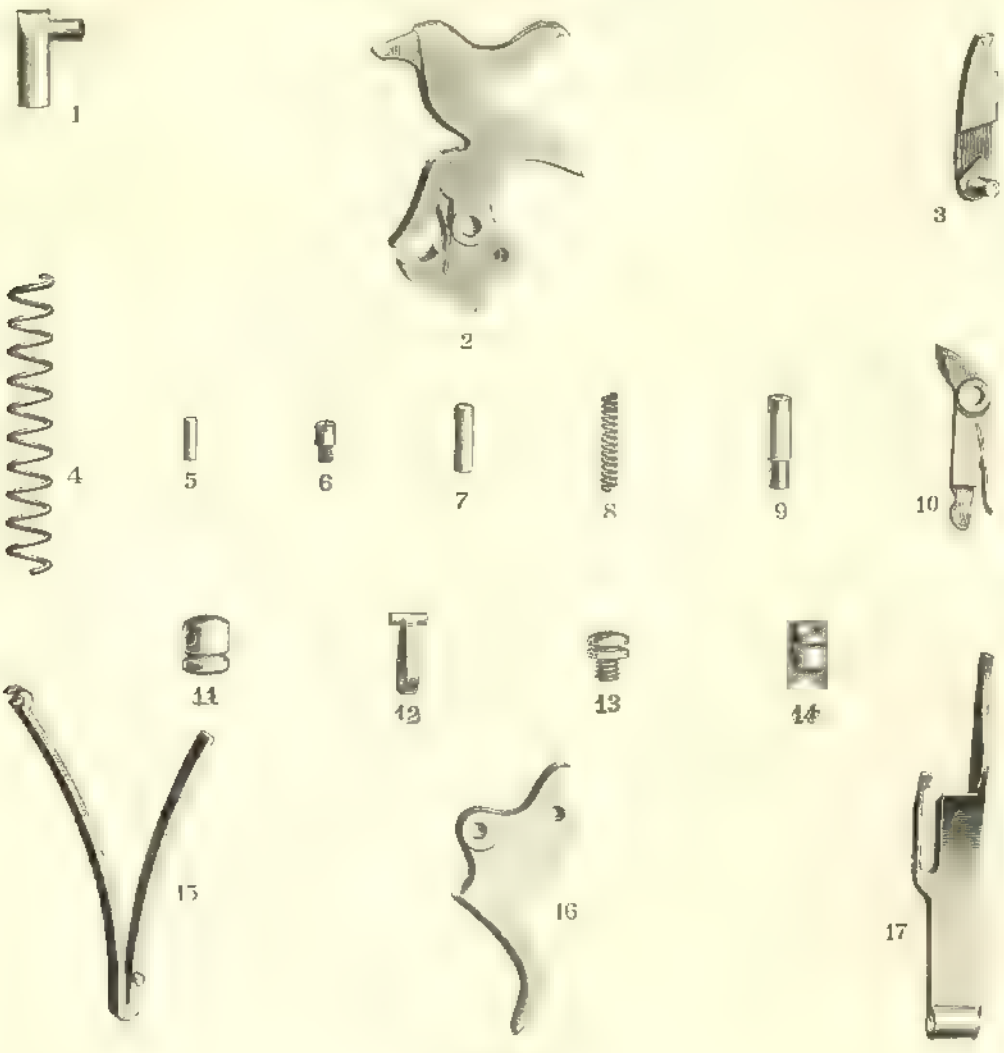

### Price List.

| Nos | | Each. |
|---|---|---|
| 1 | Hammer | $1 00 |
| 2 | Trigger | 30 |
| 3 | Trigger Pin | 03 |
| 4 | Crane | 2 50 |
| 5 | Latch | 75 |
| 6 | Latch Spring | 02 |
| 7 | Latch Pin | 02 |
| 8 | Rebound Lever | 45 |
| 9 | Hand and Hand Spring | 37 |
| 10 | Strut | 25 |
| 11 | Strut Spring | 06 |
| 12 | Strut Pin | 03 |
| 13 | Hammer Stirrup | 20 |
| 14 | Hammer Stirrup Pin | 02 |
| 15 | Hammer Pin | 03 |
| 16 | Crane Lock | 15 |
| 17 | Crane Lock Screw | 07 |
| 18 | Crane Bushing | 05 |
| 19 | Bolt and Bolt Spring | 25 |
| 20 | Locking Lever | 10 |
| 21 | Locking Lever Screw | 05 |

| Nos | | Each |
|---|---|---|
| -- | Ejector and Ratchet | $0 75 |
| 25 | Ejector Rod | 30 |
| 24 | Ejector Head | 15 |
| 25 | Ejector Spring | 10 |
| 26 | Rebound Spring | 25 |
| 27 | Rebound Spring Pin | 02 |
| 28 | Mainspring | 25 |
| 29 | Mainspring Set Screw | 05 |
| 30 | Stock Screw | 05 |
| 31 | Side Plate Screw | 05 |
| 32 | Trigger, '89 Model | 60 |
| 33 | Hand and Hand Spring, '89 Model | 37 |
| | Barrel | 2 00 |
| | Cylinder | 3 25 |
| | Swivel Ring | 05 |
| | Swivel Stud | 10 |
| | Lock Frame | 45 |
| | Stocks, per Pair | 75 |
| | Escutcheons, per Set | 05 |
| | Recoil Plate | 15 |
| | Side Plate | 1 00 |

# Component Parts.

## Colt's New Pocket, New Police and New Police Target Double Action Revolvers, .32 Caliber.



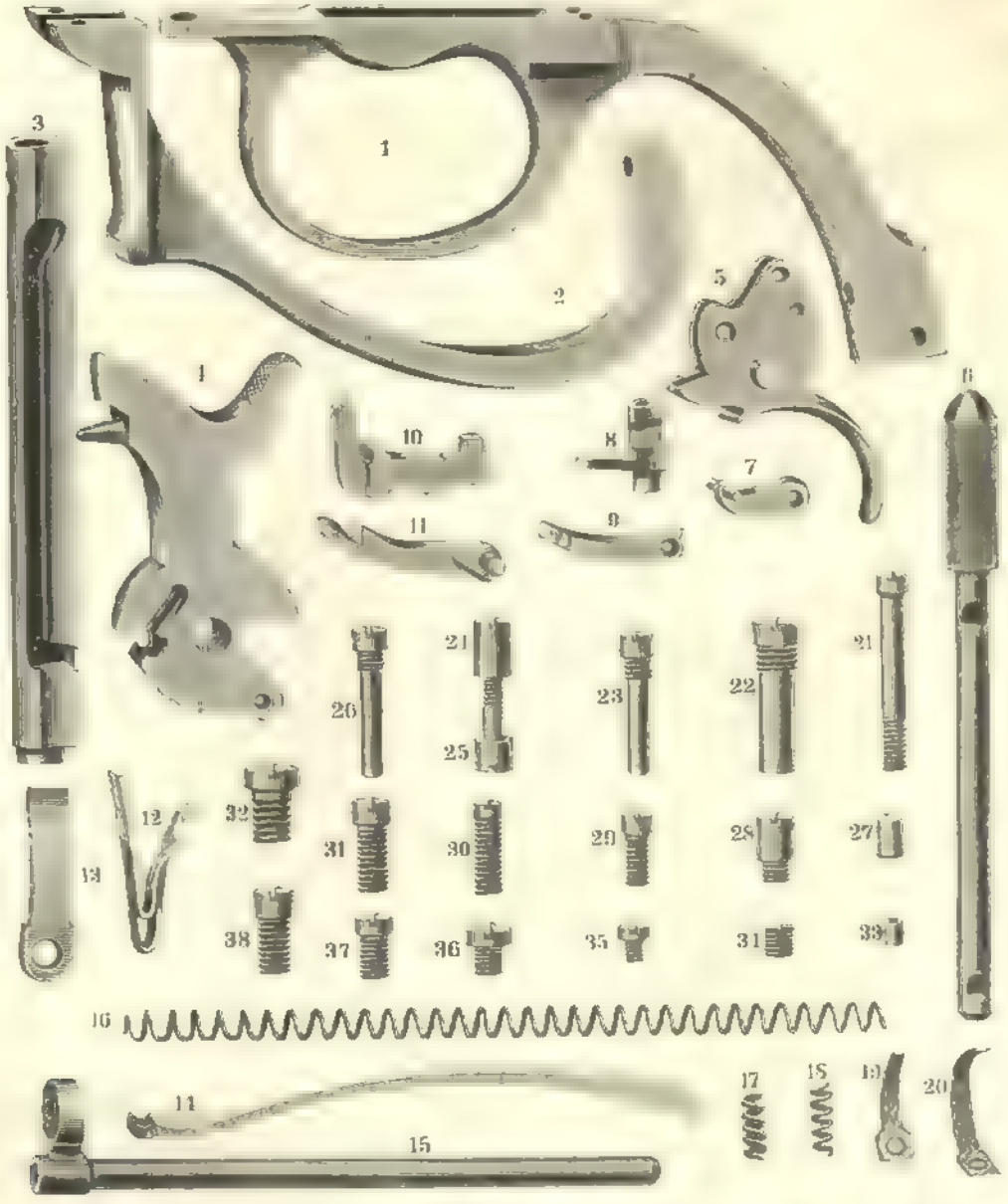

### Price List.

| Nos | | Each |
|---|---|---|
| 1 | Latch Pin | $0 15 |
| 2 | Hammer, Complete | 1 [illegible] |
| 3 | Hand | 40 |
| 4 | Ejector Spring | 10 |
| 5 | Hammer Stirrup Pin | 02 |
| 6 | Bolt Screw | [illegible] |
| 7 | Lever Pin | 03 |
| 8 | Latch Spring | 02 |
| 9 | Hammer Pin | 03 |
| 10 | Bolt and Spring | 40 |
| 11 | Ejector Rod Head | 15 |
| 12 | Hammer Stirrup | 20 |
| 13 | Crane Lock Screw | 07 |
| 14 | Crane Lock | 25 |
| 15 | Mainspring | 50 |
| 16 | Trigger | 60 |
| 17 | Lever | 75 |

| | Each |
|---|---|
| Barrel, 2½ or 3½ inches | $1 25 |
| Barrel, 6 inches | 2 00 |
| Cylinder | 3 00 |
| Frame with Crane Lock and Cap | 6 50 |
| Ejector | 75 |
| Side Plate | 80 |
| Ejector Rod | 25 |
| Recoil Plate | 05 |
| Strut | 25 |
| Strut Spring | 06 |
| Strut Pin | 03 |
| Crane | 2 25 |
| Crane bushing | 10 |
| Latch | 75 |
| Stocks, per Pair | 75 |
| Stock Screws | 05 |
| Escutcheons, per Set | 05 |

# Component Parts.

## Colt's Double Action Revolvers, .38 and .41 Calibers.




### Price List.

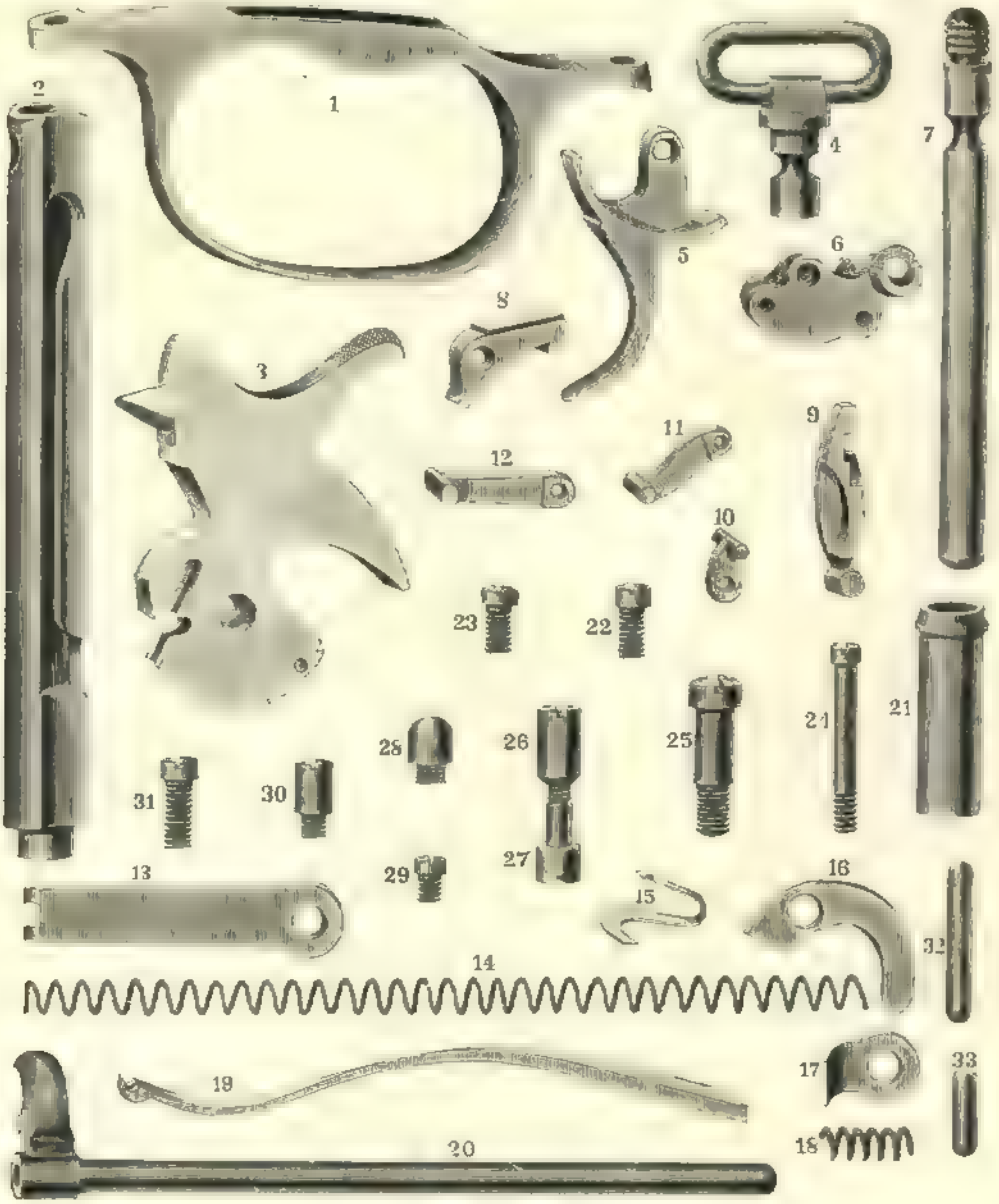
| Nos. | | Each |
|---|---|---|
| 1 | Guard | $ .. |
| 2 | Strap | .. |
| 3 | Ejector Tube | 1 .. |
| 4 | Hammer | 1 .. |
| 5 | Trigger | .. |
| 6 | Base Pin | .. |
| 7 | Hammer Stirrup | .. |
| 8 | Sear | .. |
| 9 | Strut | .. |
| 10 | Bolt | .. |
| 11 | Hand | .. |
| 12 | Sear and Bolt Spring | .. |
| 13 | Trigger Spring | .. |

| Nos. | | Each |
|---|---|---|
| 14 | Mainspring | $ .. |
| 15 | Ejector Rod and Head | .. |
| 16 | Ejector Spring | .. |
| 17 | Gate Spring | .. |
| 18 | Base Pin Catch Spring | .. |
| 19 | Strut Spring | .. |
| 20 | Hand Spring | .. |
| 21 | Stock Screw | .. |
| 22 | Hammer Screw | .. |
| 23 | Trigger Screw | .. |
| 24 | Base Pin Catch Nut | .. |
| 25 | Base Pin Catch Screw | .. |
| 26 | Sear Screw | .. |

| Nos. | | Each |
|---|---|---|
| 27 | Gate Catch | $ .. |
| 28 | Ejector Tube Screw | .. |
| 29 | Front Trap Screw | .. |
| 30 | Mainspring Set Screw | .. |
| 31 | Rear Guard Screw | .. |
| 32 | Mainspring Screw | .. |
| 33 | Trigger Roll | .. |
| 34 | Latch Screw | .. |
| 35 | Hand and Strut Spring Screw | .. |
| 36 | Trigger Spring Screw | .. |
| 37 | Front Guard Screw | .. |
| 38 | Rear Strap Screw | .. |

# Component Parts.

## Colt's Double Action Army and Frontier Revolvers, .45 Caliber.

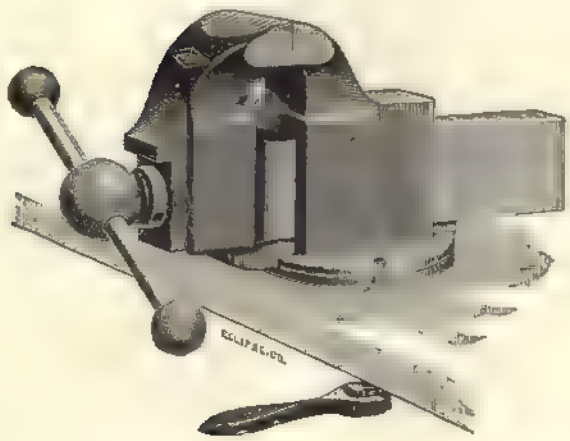



### Price List.

| Nos. | | Each. |
|---|---|---|
| 1 | Guard | $1 50 |
| 2 | Ejector Tube | 1 50 |
| 3 | Hammer | 1 25 |
| 4 | Swiven Ring and Stud | 15 |
| 5 | Trigger | 50 |
| 6 | Saddle | 1 00 |
| 7 | Base Pin | 42 |
| 8 | Sear | 50 |
| 9 | Hand | 25 |
| 10 | Saddle Stirrup | 25 |
| 11 | Hammer Stirrup | 25 |
| 12 | Strut | 25 |
| 13 | Trigger Spring | 40 |
| 14 | Ejector Spring | 12 |
| 15 | Strut and Hand Spring | 10 |
| 16 | Latch Spring | $0 20 |
| 17 | Sear Spring | 10 |
| 18 | Base Pin Catch Spring | 02 |
| 19 | Mainspring | 50 |
| 20 | Ejector Rod and Head | 77 |
| 21 | Cylinder Bushing | 40 |
| 22 | Rear Guard Screw | 05 |
| 23 | Mainspring Set Screw | 05 |
| 24 | Stock Screw | 05 |
| 25 | Hammer Screw | 05 |
| 26 | Base Pin Catch Nut | 05 |
| 27 | Base Pin Catch Screw | 05 |
| 28 | Gate Screw | 05 |
| 29 | Gate Spring Screw | 05 |
| 30 | Ejector Tube Screw | 05 |
| 31 | Front Guard Screw | $0 |
| 32 | Trigger and Sear Pins | |
| 33 | Swivel Pin | |
| | Cylinder | |
| | Cylinder Ratchet | |
| | Barrel | |
| | Barrel Sight | |
| | Lock Frame | |
| | Lock Frame Cap | |
| | Lock Frame Gate | 1 |
| | Recoil Plate | |
| | Stocks, per pair | |
| | Escutcheons, per set | |

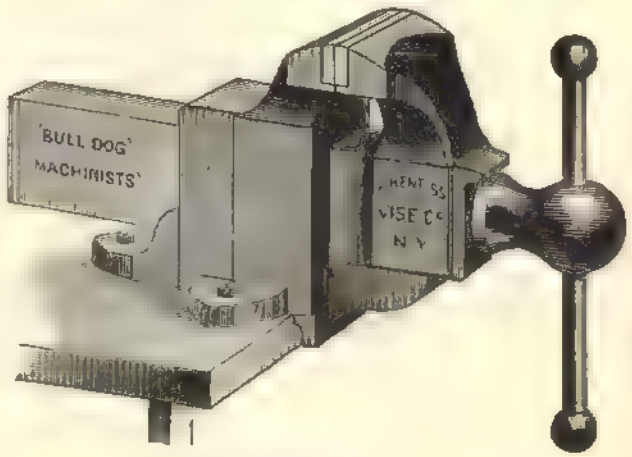
# MACHINISTS' VISES.

## NEW MODEL SWIVEL.



| Nos. | Width of Jaws, Inch. | Weight, Lbs. | Each. |
|---|---|---|---|
| 71 | 2½ | 26 | $ 5.20 |
| 72 | 3¼ | 36 | 7.50 |
| 73 | 3⅝ | 43 | 8.75 |
| 74 | 4⅛ | 56 | 10.50 |

## PRENTISS BULLDOG.

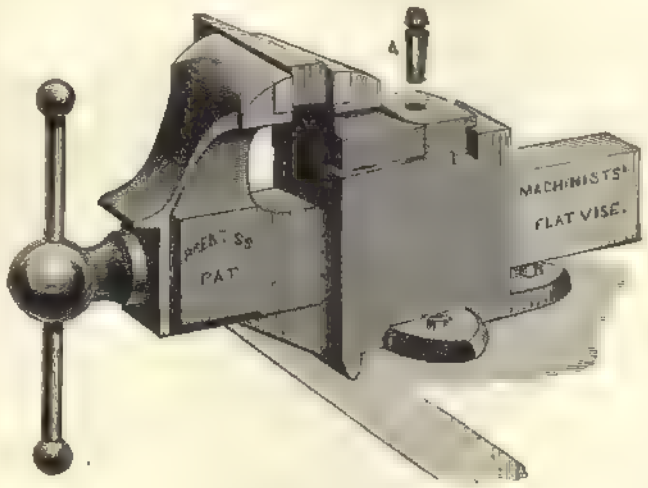



Stationary Bottom Solid Jaw.

| Nos. | Jaws, Inch. | Opens, Inch. | Weight, Lbs. | Each. |
|---|---|---|---|---|
| 50 | 3¼ | 4 | 22 | $ 6.00 |
| 51 | 3⅝ | 5 | 28 | 7.00 |
| 52 | 4⅛ | 5½ | 42 | 8.50 |
| 53 | 4⅝ | 6¼ | 52 | 10.00 |
| 54 | 5 | 7 | 72 | 13.00 |
| 55 | 5½ | 8½ | 100 | 18.50 |
| 56 | 6 | 9 | 135 | 25.00 |

# PRENTISS.

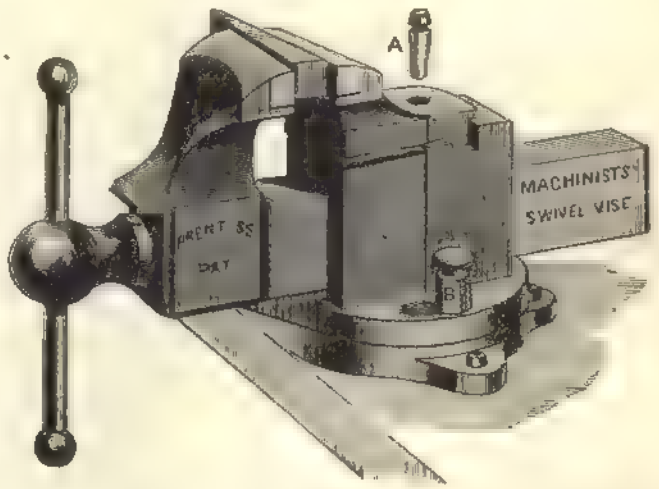
## STATIONARY BOTTOM.




Self-adjusting Jaw.

| Nos | Jaws, Inch. | Opens, Inch. | Weight Lbs. | Each. |
|---|---|---|---|---|
| 2 | 3⅛ | 4¼ | 28 | $ 7.00 |
| 2½ | 4 | 5¼ | 41 | 9.00 |
| 3 | 4½ | 6 | 54 | 10.50 |
| 4 | 5¼ | 8 | 96 | 17.00 |
| 5 | 6 | 9 | 146 | 24.00 |
| 6 | 7 | 11 | 184 | 30.00 |

## SWIVEL BOTTOM.

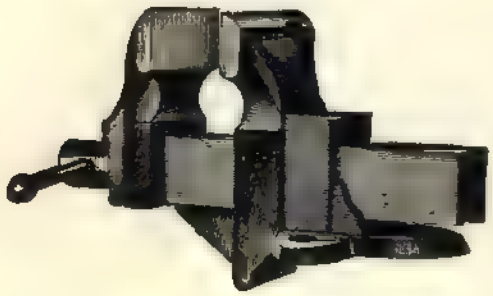



Self-adjusting Jaw.

| Nos. | Jaws, Inch. | Opens, Inch. | Weight, Lbs. | Each. |
|---|---|---|---|---|
| 19 | 3½ | 4¾ | 32 | $ 8.50 |
| 19½ | 4 | 5¼ | 46 | 10.50 |
| 20 | 4½ | 6 | 65 | 12.50 |
| 21 | 5¼ | 8 | 109 | 19 00 |
| 22 | 6 | 9 | 168 | 27.00 |
| 23 | 7 | 11 | 207 | 35 00 |

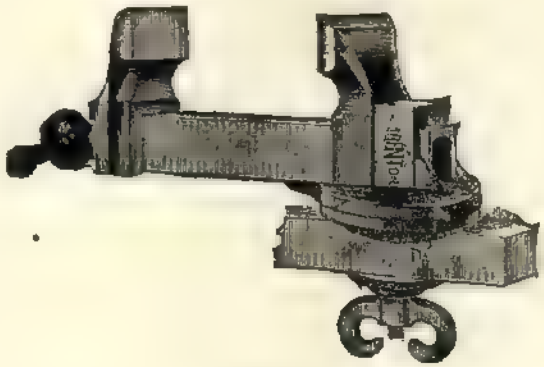
# COACHMAKERS' VISES.

STATIONARY BOTTOM.



No. 50.

SWIVEL BOTTOM.



No. 52.

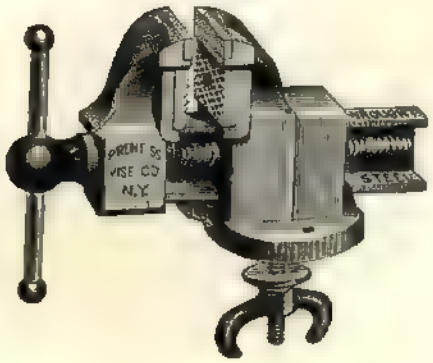
**No. 50**—Jaws, 4 inches. Opens, 9 inches. Weight, 48 lbs. Each, $9.00

**No. 52**—Jaws, 4 inches. Opens, 9 inches. Weight, 54 lbs. Each, $11.00

# PIPE VISES.

PRENTISS.

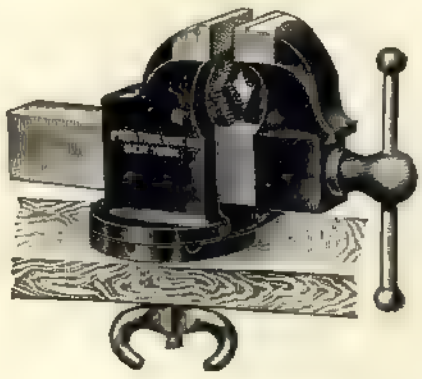
COMBINATION.




Wrought Steel Sliding Bar. Reversible Jaws.

| No. | Jaws, Inch | Holds Pipe, Inch. | Weight, Lbs. | Each. |
|---|---|---|---|---|
| 81 | 3½ | ⅛ to 2½ | 35 | $14 00 |
| 82 | 4¼ | ⅛ " 4 | 55 | 20 00 |
| 83 | 5 | ⅛ " 6 | 100 | 30 00 |

COMBINATION.



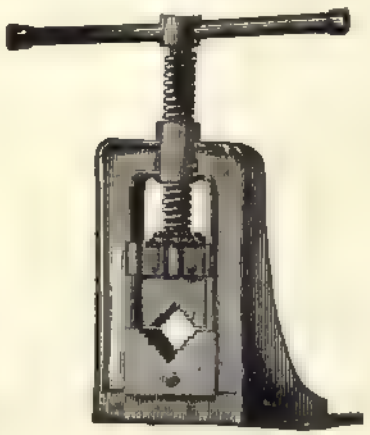
Swivel Base. Reversible Jaws.

| Nos. | Jaws, Inch. | Opens, Inch | Holds Pipe, Inch | Wgt. Lbs. | Each. |
|---|---|---|---|---|---|
| 181 | 3½ | 4 | ⅛ to 2½ | 57 | $16 00 |
| 182 | 4¼ | 4½ | ⅛ " 3 | 84 | 20 00 |
| 182½ | 5 | 5½ | ⅛ " 4 | 115 | 28 00 |
| 183 | 6 | 9 | ⅛ " 6 | 155 | 35 00 |

PACIFIC HARDWARE & STEEL COMPANY

# PIPE VISES.

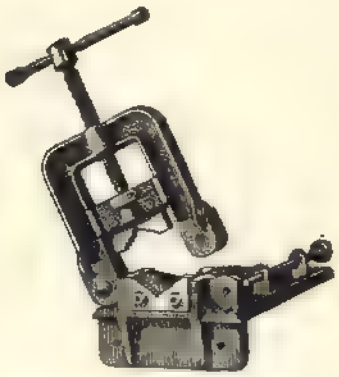
## ARMSTRONG'S.



Malleable Iron Steel Jaws.

| No. | 0 |
|---|---|
| Holds pipe, inch | ⅛ to 2 |
| Weight, lbs | 7 |
| Each | $4.50 |

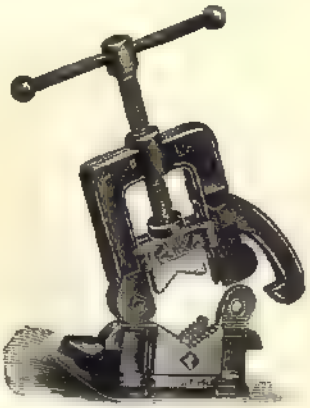
## SAUNDER'S HINGED.



Hinged. Malleable Iron Reversible Steel Jaws.

| Nos. | 6 | 7 |
|---|---|---|
| Holds pipe, inch | ¼ to 4 | ½ to 6 |
| Weight, lbs | 32 | 60 |
| Each | $18 00 | 32.00 |

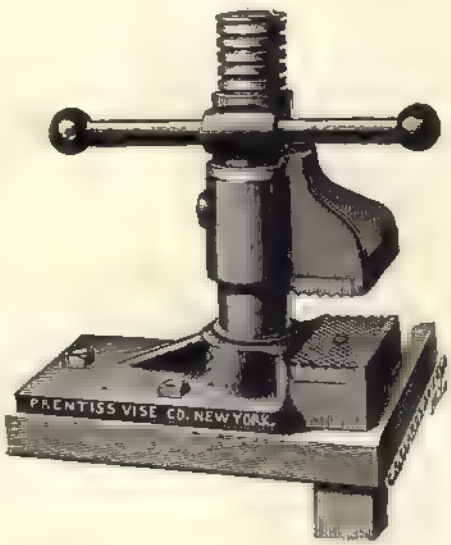
## ARMSTRONG'S HINGED.



Hinged. Malleable Iron Reversible Steel Jaws.

| Nos. | 1 | 2 |
|---|---|---|
| Holds pipe, inch | 0 to 2½ | 0 to 2½ |
| Weight, lbs | 12 | 16 |
| Each | $6.00 | 7 50 |

## PRENTISS.




Malleable Iron. Reversible Steel Jaws.

| Nos. | 85 | 86 |
|---|---|---|
| Holds pipe, inch | ⅛ to 2 | ⅛ to 3 |
| Weight, lbs | 8 | 18 |
| Each | $5.00 | 7.50 |

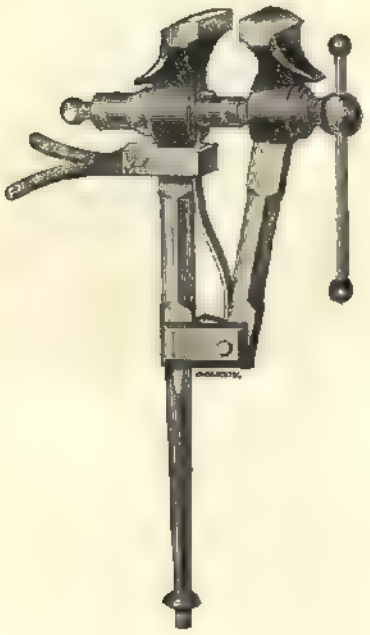
## SHEPARD'S.

Malleable Iron. Reversible Steel Jaws.

| Nos. | 201 | 202 | 203 |
|---|---|---|---|
| Holds pipe, inch | ⅛ to 2½ | ¼ to 4 | 1 to 6 |
| Weight, lbs | 18 | 35 | 75 |
| Each | $5 00 | 9.00 | 16.00 |

# SOLID BOX VISES.

## AMERICAN.

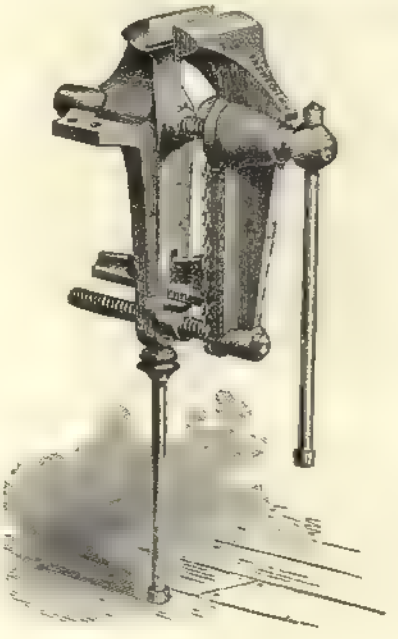


### AMERICAN

| Weight, Lbs. | Jaw Inch | Each. |
|---|---|---|
| 25 lbs. | 3¼ | $12 00 |
| 30 " | 3⅜ | 11 00 |
| 35 " | 3¾ | 10 00 |
| 40 " | 4 | 10 50 |
| 45 " | 4¼ | 11 00 |
| 50 " | 4½ | 11 50 |
| 55 " | 4¾ | 12 00 |
| 60 " | 5 | 13 00 |
| 65 " | 5 | 14 00 |
| 70 " | 5¼ | 15.00 |
| 75 " | 5¼ | 16 00 |
| 80 " | 5½ | 17 50 |
| *85 " | 5½ | 18 50 |
| 90 " | 5¾ | 20 00 |
| *95 " | 5¾ | 21 00 |
| 100 " | 6 | 22 00 |
| *105 " | 6 | 23 00 |
| 110 " | 6 | 24 00 |
| *115 " | 6½ | 25 00 |
| 120 " | 6½ | 26 00 |
| 125 " | 6½ | 27 50 |
| *130 " | 6½ | 29 00 |
| *135 " | 6½ | 31 50 |
| *140 " | 7 | 33 00 |
| *145 " | 7 | 35 00 |
| 150 " | 7 | 36 00 |
| 160 " | 7¼ | 41 50 |
| 170 " | 7¼ | 44 50 |
| *180 " | 7½ | 47 00 |
| *190 " | 7½ | 53 00 |
| *200 " | 8 | 56 00 |

*Sizes not carried in stock.

## FISHER.



### FISHER.

WITH CHAIN. DOUBLE SCREW.

| Nos. | 4 | 5 | 6 |
|---|---|---|---|
| Weight, lbs | 120 | 150 | 160 |
| Each | $30 00 | 35 00 | 40 00 |

# BOXES AND SCREWS

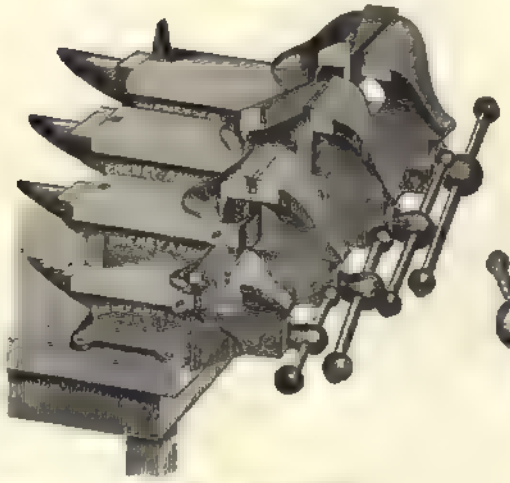
## FOR SOLID BOX VISES.

| Nos. | 1 | 1½ | 2 | 2½ | 3 |
|---|---|---|---|---|---|
| For Vise, lbs. | 25 to 40 | 45 to 55 | 60 to 65 | 70 to 75 | 80 to 85 |
| Diameter of screw, inch | 1 | 1⅛ | 1¼ | 1¼ | 1⅜ |
| " " box, " | 1½ | 1⅝ | 1¾ | 1¾ | 1⅞ |
| Weight, lbs. | 8 | 10 | 12 | 13½ | 15 |
| Each | $5.25 | 6.00 | 6.00 | 6.75 | 6 75 |

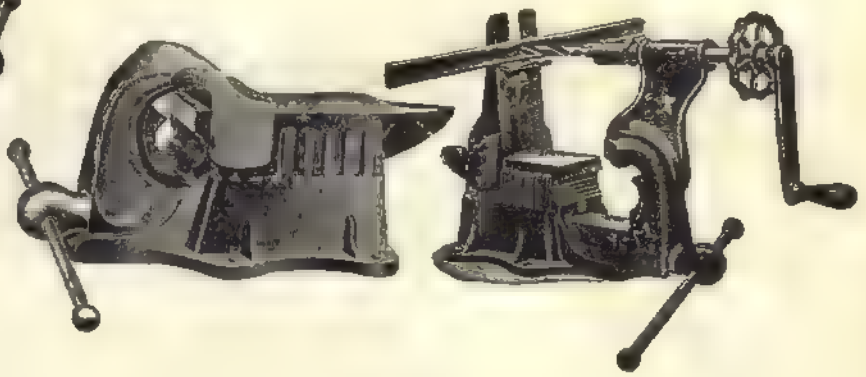
| Nos. | 3½ | 4 | 4½ | 6 | 7 |
|---|---|---|---|---|---|
| For Vise, lbs | 90 to 95 | 100 to 125 | 130 to 150 | 160 to 190 | 200 to 250 |
| Diameter of screw, inch | 1⅜ | 1½ | 1⅝ | 2 | 2 |
| " " box, " | 1⅞ | 2⅛ | 2⅜ | 2⅝ | 2⅝ |
| Weight, lbs. | 19 | 22 | 29 | 32 | 40 |
| Each | $9.75 | 10.50 | 13 75 | 13.75 | 16 50 |

# ANVIL AND VISE.

CHENEY.



STAR.



| Nos. | Width of Jaws, inch. | Face of Anvil, Inch. | Opening of Jaws, Inch. | Weight Lbs. | Each. |
|---|---|---|---|---|---|
| 10 | 2½ | 4½x2 | 3 | 9 | $3 50 |
| 20 | 3½ | 6½x3 | 4 | 25 | 4.50 |
| 30 | 4 | 8 x3½ | 5 | 35 | 5.50 |
| 40 | 4½ | 8 x4 | 6 | 50 | 6.50 |

Vise, Anvil and Drill Attachment

Opening of jaws 12 inches, solid box, hardened jaws and drill attachment; has independent screw feed 11 threads to the inch, also drill rest with adjustable step, all painted green.

**No. 15**—Anvil and Vise. Weight, 47 lbs..... Each, $6 00
**No. 25**— " " " With drill attachment. Weight, 63 lbs..... " 9 75

# PHOENIX ANVILS.

Made of Best Wrought Iron. Faced with Best Crucible Cast Steel and Fully Warranted.

| Base sizes, 80 to 425 lbs.....Per pound, $. .. | | | | |
|---|---|---|---|---|
| Weights, lbs..... | 50 to 59 | 60 to 69 | 70 to 79 | 426 to 500 |
| Advance.....Per pound, | $0.02 | .01 | .00¾ | .00½ |

# Pipe Wrenches.

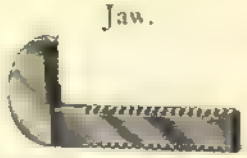
## Trimo.

**Forged Steel. Parts Interchangeable.**

| Length Open, Inch | 6 | 8 | 10 | 14 | 18 | 24 | 36 |
|---|---|---|---|---|---|---|---|
| Takes From | ⅛ in. Wire to ½ in. Pipe. | ⅛ in. Wire to ¾ in. Pipe. | ⅛ in. Wire to 1 in. Pipe. | ⅛ in. Wire to 1½ in. Pipe. | ⅛ in. Wire to 2 in. Pipe. | ⅛ in. Wire to 3½ in. Pipe. | ⅛ in. Pipe to 3½ in. Pipe. |
| Each | $2 00 | $2 00 | $2 25 | $3 00 | $4 00 | $6 00 | $12 00 |
| Extra Jaws | 67 | 67 | 75 | 1 00 | 1 33 | 2 00 | 4 00 |
| Extra Nuts | 20 | 20 | 27 | 35 | 42 | 50 | 65 |
| Extra Inserted Jaws | 25 | 25 | 33 | 50 | 55 | 65 | 1 00 |
| Extra Frames | 25 | 25 | 33 | 45 | 55 | 65 | 75 |
| Weight per Dozen, lbs | 12 | 14½ | 23 | 51 | 82 | 128 | 280 |

In Ordering Parts, State Size of Wrench

## Stillson's.


Jaw.

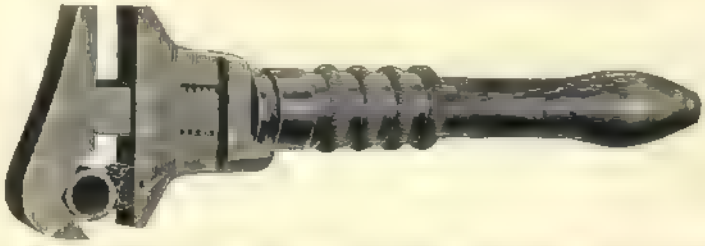
Nut.

Frame.

| Length Open, Inch | 6 | 8 | 10 | 14 | 18 | 24 | 36 | 48 |
|---|---|---|---|---|---|---|---|---|
| Takes From | ⅛ in. Wire to ⅝ in. Pipe | ⅛ in. Wire to ¾ in. Pipe | ⅛ in. Wire to 1 in. Pipe | ⅛ in. Wire to 1½ in. Pipe | ⅛ in. Wire to 2 in. Pipe | ⅛ in. Wire to 3½ in. Pipe | ⅛ in. Pipe to 3½ in. Pipe | 1 in. Pipe to 5 in. Pipe |
| Each | $2 00 | $2 00 | $2 25 | $3 00 | $4 00 | $6 00 | $12 00 | $18 00 |
| Extra Jaws | 67 | 67 | 75 | 1 00 | 1 33 | 2 00 | 4 00 | 6 00 |
| Extra Frames | 25 | 25 | 33 | 45 | 55 | 65 | 75 | 1 00 |
| Extra Nuts | 20 | 20 | 27 | 35 | 42 | 50 | 65 | 80 |
| Weight per Dozen, lbs | 5½ | 11 | 23 | 41 | 72 | 128 | 216 | 300 |

In Ordering Parts, State Size of Wrench.

## Bemis & Call Co.'s Combination.



**With Wrought Iron Bar, Case-Hardened Throughout. Parts Interchangeable.**

### Bright, with Long Nut.

| Length Open, Inch | 10 | 12 | 15 | 18 |
|---|---|---|---|---|
| For Pipe, Inch | ½ to 1 | ½ to 1¾ | ½ to 2 | ½ to 3 |
| Per Dozen | $25 50 | $28 50 | $40 50 | $66 00 |
| Extra Jaws, with Screws, Each | 38 | 50 | 63 | 75 |
| Weight per Dozen, lbs | 23 | 36 | 52 | 75 |

In Ordering Parts, State Size of Wrench.

# Wrenches.

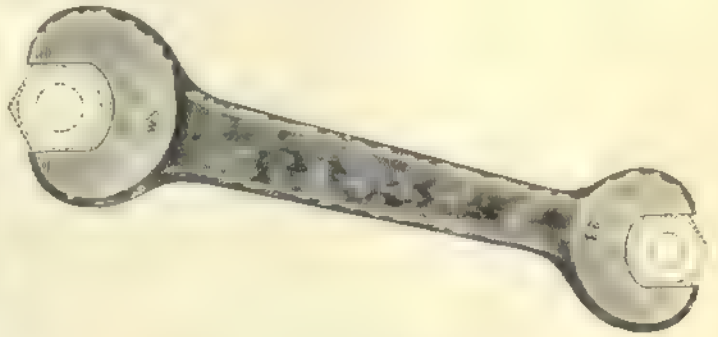
## For Set-Screws and Cap-Screws.

Drop-Forged from Bar Steel.

| Nos. | 235 | 238 | 242 | 246 | 247 | 248 | 252 | 256 |
|---|---|---|---|---|---|---|---|---|
| For Set Screws, Sizes, inch. | ¼ & 5/16 | 5/16 & ⅜ | ⅜ & 7/16 | ⅜ & ½ | ⅜ & 9/16 | 7/16 & ½ | ½ & 5/8 | ½ & ¾ |
| For Hex. Hd. Cap Screws, Size, | .... | .... | 3/16 & ¼ | 3/16 & 5/16 | 3/16 & ⅜ | ¼ & 5/16 | 5/16 & 7/16 | 5/16 & ½ |
| Each | $0 20 | 0 20 | 0 24 | 0 30 | 0 30 | 0 30 | 0 38 | 0 48 |

# Engineers' Wrenches.

Drop-Forged from Bar Steel.



### Single Head.

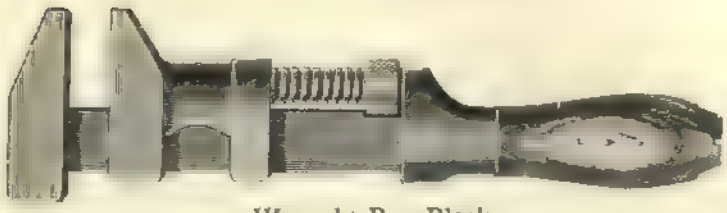
| Number. | For U. S. Standard Nuts, Size Bolt, Inch | Extreme Length, Each | Unfinished Each |
|---|---|---|---|
| 0 | 5/16 | 2⅞ | $0 09 |
| 1 | ¼ | 3¾ | 10 |
| 2 | 5/16 | 4¾ | 12 |
| 3 | ⅜ | 5½ | 14 |
| 4 | 7/16 | 6½ | 17 |
| 5 | ½ | 7½ | 20 |
| 6 | 9/16 | 8½ | 25 |
| 7 | ⅝ | 9¼ | 32 |
| 8 | ¾ | 11½ | 40 |
| 9 | ⅞ | 13 | 50 |
| 10 | 1 | 14⅞ | 65 |
| 11 | 1⅛ | 16⅝ | 85 |
| 12 | 1¼ | 18½ | 1 10 |
| 13 | 1⅜ | 20¼ | 1 40 |
| 14 | 1½ | 22¼ | 1 75 |
| 15 | 1⅝ | 24 | 2 10 |
| 16 | 1¾ | 25¾ | 2 50 |
| 16½ | 1⅞ | 25⅞ | 2 50 |
| 17 | 2 | 29½ | 3 50 |

### Double Head.

| Number | For U. S. Standard Nuts, Size Bolt, Inch | Extreme Length, Inch. | Unfinished, Each |
|---|---|---|---|
| 21 | 1/8 & 5/16 | 3¼ | $0 12 |
| 22 | ⅛ & ¼ | 4 | 14 |
| 23 | 5/16 & ¼ | 4 | 15 |
| 25 | ¼ & 5/16 | 4⅛ | 18 |
| 26 | ¼ & ⅜ | 5⅛ | 20 |
| 27 | 5/16 & ⅜ | 5⅛ | 21 |
| 29 | ⅜ & 7/16 | 6⅞ | 25 |
| 30 | ⅜ & ½ | 7¾ | 28 |
| 34 | ½ & ⅝ | 9¼ | 41 |
| 35 | 9/16 & ⅝ | 9¾ | 43 |
| 37 | ⅝ & ¾ | 11¾ | 53 |
| 39 | ¾ & ⅞ | 13½ | 65 |
| 41 | ⅞ & 1 | 15½ | 82 |
| 42 | ⅞ & 1⅛ | 17⅜ | 1 00 |
| 43 | 1 & 1⅛ | 17⅜ | 1 08 |
| 44 | 1 & 1¼ | 19⅜ | 1 27 |
| 47 | 1¼ & 1⅜ | 21¼ | 1 75 |
| 49 | 1⅜ & 1½ | 23¼ | 2 25 |
| 51 | 1½ & 1⅝ | 25⅛ | 2 85 |
| 53 | 1⅝ & 1¾ | 27⅛ | 3 55 |
| 55 | 1¾ & 2 | 30⅞ | 4 55 |

# Wrenches.

## Standard or Agricultural.

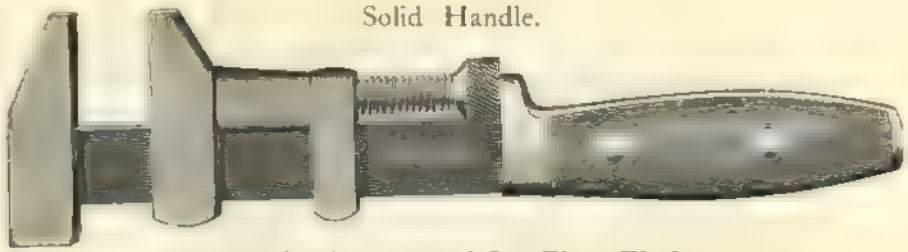


Wrought Bar, Black.

| **Length, inch** | **6** | **8** | **10** | **12** | **15** |
|---|---|---|---|---|---|
| Weight per Dozen, lbs. | 9½ | 20 | 24 | 34 | 56 |
| Per Dozen | $9 00 | 10 00 | 12 00 | 14 00 | 24 00 |

## Peck, Stow and Wilcox.

Solid Handle.



Solid Steel Forging of One Piece, Black.

| **Length, inch** | **6** | **8** | **10** | **12** | **15** |
|---|---|---|---|---|---|
| Weight per Dozen, lbs. | 11 | 18 | 30 | 43 | 68 |
| Per Dozen | $9 00 | 10 00 | 12 00 | 14 00 | 24 00 |

## Acme.

Wrought Steel.

Bright Finished Jaws, Japanned Handle.

| **Length, inch** | **6** | **8** | **10** | **12** |
|---|---|---|---|---|
| Weight per Dozen, lbs. | 10 | 18 | 24 | 27 |
| Per Dozen | $9 00 | 10 00 | 12 00 | 14 00 |

All Above Half Dozen in a Package.

## Coes' Knife Handle.

Black.

| **Length, inch** | **6** | **8** | **10** | **12** | **15** | **18** | **21** |
|---|---|---|---|---|---|---|---|
| Weight per Dozen, lbs. | 11 | 18 | 30 | 43 | 68 | 93 | 126 |
| Per Dozen | $9 00 | 10 00 | 12 00 | 14 00 | 24 00 | 30 00 | 36 00 |

6 to 12 in., Half Dozen. 15 to 21 in., One-third Dozen in a Package.

# Brown's Adjustable Pipe Tongs.

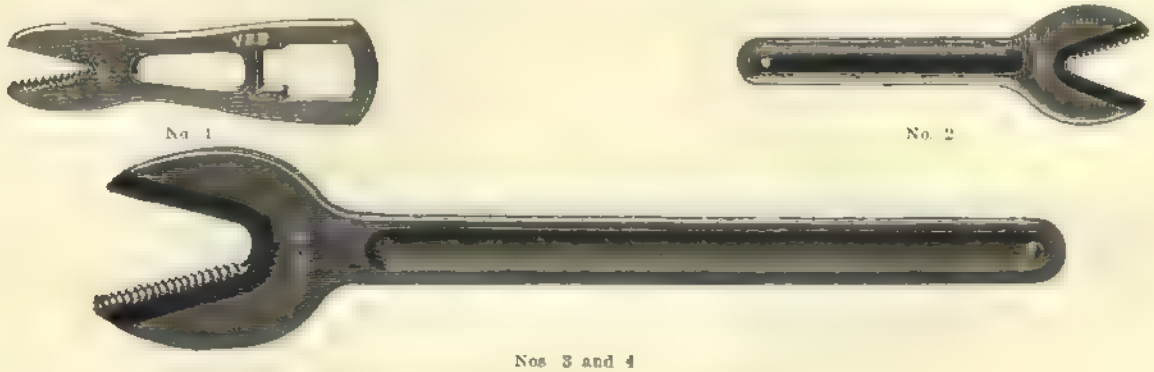
| Nos. | 1 | 1½ | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| For Pipe, inch | ⅛ to ¾ | ⅜ to 1 | ½ to 1¼ | 1 to 2 | 1½ to 3 | 2½ to 4 |
| Weight per Pair, lbs | 3½ | 5 | 7½ | 13 | 23 | 26 |
| Per Pair | $1 20 | 1 50 | 1 70 | 2 40 | 5 40 | 12 00 |

# Vulcan Drop-Forged Chain Pipe Wrenches.

They are strong and durable being wholly from wrought steel. The drop-forged jaws are of saw temper; the teeth can be sharpened by filing only. The pressure of the teeth is in a line tangent to the circumference of the pipe, which combined with the encircling grip of the chain, prevents crushing.

| Nos. | 0 | 1 | 2 | 3 | 3½ | 4 | 5 |
|---|---|---|---|---|---|---|---|
| Each | $2 50 | 3 50 | 5 50 | 7 50 | 9 00 | 11 00 | 18 00 |
| Length Each, inch | 14 | 20 | 27 | 37 | 44 | 50 | 65 |
| For Pipe, inch | ⅛ to ¾ | ⅛ to 1½ | ¼ to 2½ | ¾ to 4 | 1 to 6 | 1½ to 8 | 2 to 12 |
| Weight Each Net, lbs | 1¾ | 4¾ | 8¾ | 16 | 21 | 29 | 49 |
| Extra Chains .....Each, | $0 75 | 1 00 | 1 50 | 2 50 | 3 25 | 4 00 | 6 00 |

# Alligator Wrenches.



No. 1

No. 2

Nos. 3 and 4

No. 1, Bright. Nos. 2, 3 and 4, Black.

| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Length, inch | 5¾ | 10 | 16 | 22 |
| For Pipe, inch | ⅛ to ⅜ | ⅜ to ¾ | ½ to 1¼ | 1¼ to 2 |
| For Round Iron, inch | ¼ to ¾ | ½ to 1 | ¾ to 1⅜ | 1½ to 2½ |
| Weight per Dozen, lbs | 3½ | 15½ | 41 | 56 |
| Per Dozen | $4 00 | 12 00 | 24 00 | 36 00 |

No. 1, One Dozen in a Box; All Others Loose.

# Wrenches.

## Always Ready.

Nickel Plated.

Nos. 1, 2 and 2½.

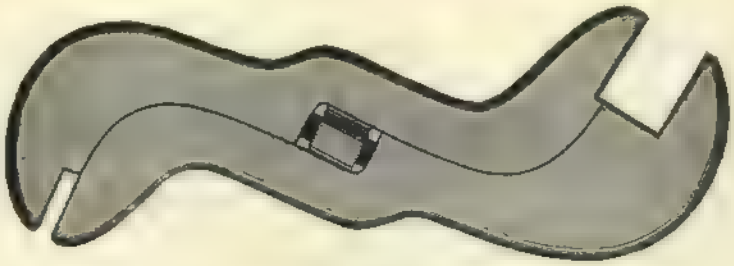
Chased Body, Polished Ribs.

Nos. 101 and 102.

**Forged Steel, Oil Tempered.**

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **No. 1**—5 in., | for | ¼ | to | ¾ | in., | Square | or | Round | Iron, | Weight | per | Dozen, | 8 | lbs | . | Per | Dozen, | $ | 5 00 |
| **No. 2**—7 | " | " | ¼ | " | 1¼ | " | " | " | " | " | " | " | 20 | " | . | " | " | | 6 75 |
| **No. 2½**—9 | " | " | ¼ | " | 1¾ | " | " | " | " | " | " | " | 28 | " | . | " | " | | 10 50 |
| **No. 101**—5 | " | " | ¼ | " | ¾ | " | " | " | " | " | " | " | 8 | " | . | " | " | | 4 60 |
| **No. 102** 7 | " | " | ¼ | " | 1¼ | " | " | " | " | " | " | " | 20 | " | . | " | " | | 6 30 |

## Baxter's "S."



**Full Polished.**

| **Size**, inch | **6** | **8** | **10** | **12** |
|---|---|---|---|---|
| Weight per Dozen, lbs. | 11 | 18 | 33 | 50 |
| Per Dozen | $9 00 | 12 00 | 18 00 | 24 00 |

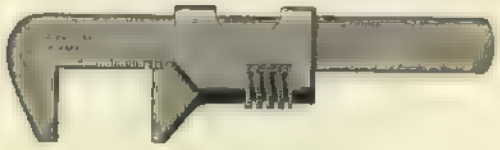
## Pocket.

Half Size Cut, Nos. 21 and 22.

**Cast Steel, Hardened Jaws.**

**No. 21**—4 in., Bright . . . . Per Dozen, $4 00
**No. 22**—4 " Nickel Plated . . . . . " " 5 00
Weight per Dozen, 5 lbs.

## Bicycle.



Half Size Cut, Nos. 3 and 15.

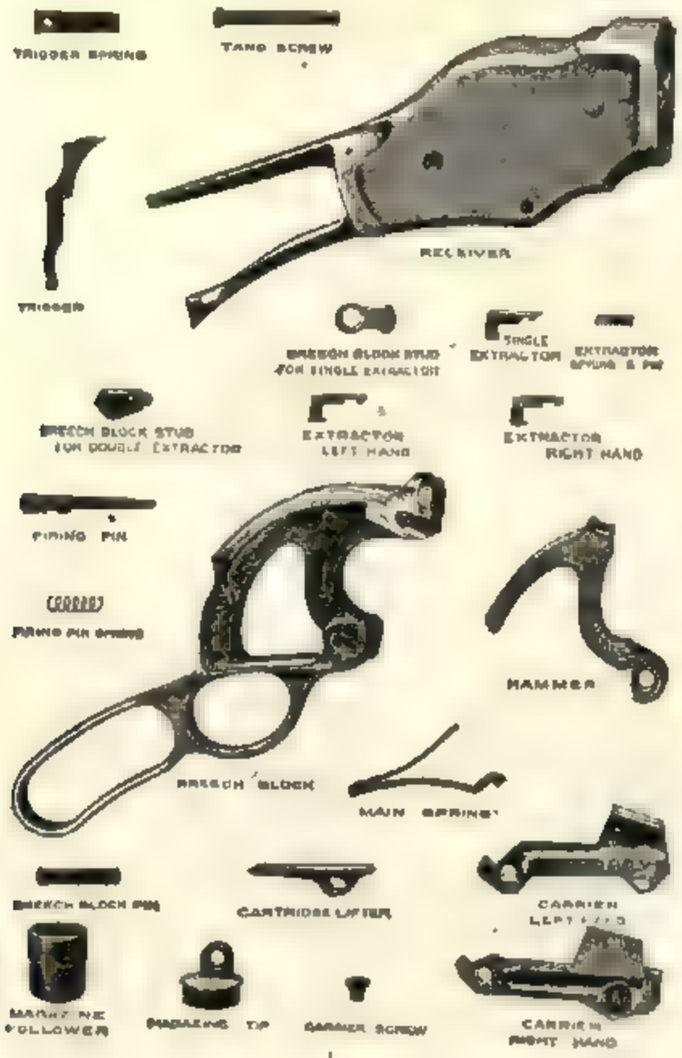
**Drop Forged from High Grade Steel.**

**No. 3**—Nickel Plated, Solid Bar, opens 1¼ in.
Weight Each, 5¼ ounces. . Per Dozen, $3 00
**No. 15**—Blued Twist, Solid Bar, Opens 1¼ in
Weight Each, 5¼ ounces. . . Per Dozen, $3 00

All Above Half Dozen in a Box.

# COMPONENT PARTS WINCHESTER REPEATING SHOTGUNS.

## LEVER ACTION.




| No. | | |
|---|---|---|
| 1 | Barrel, plain | $10.00 |
| 2 | Breech-block | 8.00 |
| 3 | Breech-block Stud | .20 |
| 4 | Breech-block Stud Screw | .05 |
| 5 | Breech-block Pin | .10 |
| 6 | Butt Stock | 2.50 |
| 7 | Butt Plate | .80 |
| 8 | Butt Plate Screws (2) Each, | .05 |
| 9 | Band | .60 |
| 10 | Band Screw | .10 |
| 11 | Carrier, right hand | 1.00 |
| 12 | Carrier, left hand | .60 |
| 13 | Carrier Screws (2) Each, | .05 |
| 14 | Carrier Stop Screw | .05 |
| 15 | Cartridge Lifter | .25 |
| 16 | Cartridge Lifter Pin | .05 |
| 17 | Cartridge Lifter Stop Pin | .05 |
| 18 | Extractor, right or left hand Each, | .30 |
| 19 | Extractor Screw | .05 |
| 20 | Extractor Spring | .05 |
| 21 | Extractor Spring Pin | $ 0.10 |
| 22 | Firing Pin | .25 |
| 23 | Firing Pin Spring | .10 |
| 24 | Firing Pin Stop Pin | .05 |
| 25 | Forearm Scale, right hand | .65 |
| 26 | Forearm Scale, left hand | .65 |
| 27 | Forearm Scale Screw | .10 |
| 28 | Hammer | .75 |
| 29 | Magazine | .90 |
| 30 | Magazine Tip | .50 |
| 31 | Magazine Tip Screw | .05 |
| 32 | Magazine Follower | .15 |
| 33 | Magazine Spring | .20 |
| 34 | Mainspring | .50 |
| 35 | Receiver | 10.00 |
| 36 | Trigger | .45 |
| 37 | Trigger Pin | .05 |
| 38 | Trigger Spring | .15 |
| 39 | Trigger Spring Screw | .05 |
| 40 | Tang Screw | .10 |

## MODEL 1897.

| No. | | |
|---|---|---|
| 1 | Action Slide | $1.50 |
| 2 | Action Slide Lock | .50 |
| 3 | Action Slide Lock Screw | .05 |
| 4 | Action Slide Lock Release Pin | .10 |
| 5 | Action Slide Lock Release Pin Plunger | .10 |
| 6 | Action Slide Spring | .05 |
| 7 | Action Hook | .30 |
| 8 | Action Hook Screw | .05 |
| 9 | Breech-block | 3.00 |
| 10 | Butt Plate | .80 |
| 11 | Butt Plate Screws (2) Each, | .05 |
| 12 | Butt Stock | 2.50 |
| 13 | Carrier | 2.00 |
| 14 | Carrier Pin | .05 |
| 15 | Carrier Pin Stop Screw | .05 |
| 16 | Cartridge Guide | .30 |
| 17 | Cartridge Guide Stop Screw | .05 |
| 18 | Cartridge Guide Friction Spring | .25 |
| 19 | Cartridge Stop, right or left hand Each, | .35 |
| 20 | Cartridge Stop Screw, right or left hand Each, | .05 |
| 21 | Extractor, right hand | .30 |
| 22 | Extractor, right hand spring | .05 |
| 23 | Extractor, right hand pin | .05 |
| 24 | Extractor, left hand | .35 |
| 25 | Extractor, left hand pin | .05 |
| 26 | Front Sight | .25 |
| 27 | Firing Pin | .50 |
| 28 | Firing Pin Lock | .50 |
| 29 | Firing Pin Lock Screw | $ 0.05 |
| 30 | Firing Pin Lock Spring | .05 |
| 31 | Firing Pin Stop Pin | .05 |
| 32 | Guard Bow | 1.50 |
| 33 | Hammer | .90 |
| 34 | Hammer Pin | .05 |
| 35 | Magazine | .90 |
| 36 | Magazine Band Screw | .05 |
| 37 | Magazine Plug | .50 |
| 38 | Magazine Spring | .20 |
| 39 | Magazine Follower | .15 |
| 40 | Magazine Stop Screw | .05 |
| 41 | Mainspring | .30 |
| 42 | Mainspring Pin | .05 |
| 43 | Mainspring Strain Screw | .05 |
| 44 | Receiver Complete with Guard | 10.00 |
| 45 | Receiver Bolt | .40 |
| 46 | Receiver Bolt Washer | .05 |
| 47 | Receiver Shank | .25 |
| 48 | Sear | .45 |
| 49 | Sear Pin | .05 |
| 50 | Sear Spring | .15 |
| 51 | Sear Spring Screw | .05 |
| 52 | Slide Handle | 1.00 |
| 53 | Slide Handle "Trap" or "Pigeon" | 6.00 |
| 54 | Slide Handle Escutcheons (3) | .15 |
| 55 | Slide Handle Screws (3) | .15 |
| 56 | Trigger | .45 |
| 57 | Trigger Spring | .05 |
| 58 | Trigger Pin | .05 |

# COMPONENT PARTS WINCHESTER REPEATING RIFLES.

## MODELS 1866, 1873, 1876.

| No. | | |
|---|---|---|
| 1 | Barrel, carbine | $5.50 |
| 2 | Barrel, musket | 8.00 |
| 3 | Barrel, round rifle | 6.25 |
| 4 | Barrel, octagon or half-octagon | 8.00 |
| 5 | Magazine Muzzle Plug* | .10 |
| 6 | Magazine Muzzle Plug Screw‡ | .03 |
| 7 | Magazine Spring, carbine,* musket or rifle* | .20 |
| 8 | Magazine Follower* | .10 |
| 9 | Magazine Ring* | .40 |
| 10 | Magazine Ring Pin* | .02 |
| 11 | Rear Band, carbine* or musket* | .30 |
| 12 | Rear Band Screws for carbine* and musket* | .05 |
| 13 | Middle Band, with Swivel for musket | .50 |
| 14 | Middle Band Screw for musket | .05 |
| 15 | Middle Band Spring for carbine and musket | ... |
| 16 | Front Band for carbines* | .35 |
| 17 | Front Band Screw for carbine | .05 |
| 18 | Front Band for musket | .50 |
| 19 | Front Band for musket with saber bayonet | .70 |
| 20 | Front Band Screw for musket | .05 |
| 21 | Forearm for carbine* | .60 |
| 22 | Forearm for musket | 1.00 |
| 23 | Forearm for rifle* | .60 |
| 24 | Forearm Tip, carbine | ... |
| 25 | Forearm Tip, musket | 1.00 |
| 26 | Forearm Tip, sporting rifle* | .80 |
| 27 | Forearm Tip screw† (2)...Each, | .03 |
| 28 | Forearm Tip Tenon, rifle* | .40 |
| 29 | Butt Stocks | 1.40 |
| 30 | Butt Plate* | $0.80 |
| 31 | Butt Plate Screws‡ | .10 |
| 32 | Butt Plate slide‡ | .20 |
| 33 | Butt Plate Slide Spring‡ | .05 |
| 34 | Butt Plate Slide Spg. Screw‡ | .03 |
| | | 1.15 |
| 35 | Stock Swivel and Screws‡ | .40 |
| 36 | Tip Swivel‡ | .40 |
| 37 | Sling Ring and Staple for carbine* | .30 |
| 38 | Receiver | 8.00 |
| 39 | Receiver Tang | 1.30 |
| 40 | Receiver Side Tang Screws (2) | .05 |
| 41 | Side Plate, right hand | .80 |
| 42 | Side Plate, left hand | .60 |
| 43 | Side Plate Screw | .05 |
| 44 | Mortise Cover | .30 |
| 45 | Mortise Cover Spring† | .05 |
| 46 | Mortise Cover Stop† | .10 |
| 47 | Mortise Cover Screw† | .03 |
| 48 | Finger Lever | $1.00 |
| 49 | Finger Lever Cam | .10 |
| | | 1.10 |

| No. | | |
|---|---|---|
| 50 | Finger Lever Screw | $0.05 |
| 51 | Finger Lever Pin* | .02 |
| 52 | Finger Lever Spring | .20 |
| 53 | Finger Lever Spring Screw* | .03 |
| 54 | Upper Tang Screw | .10 |
| 55 | Lower Tang Screw | .05 |
| 56 | Spring Cover | .30 |
| 57 | Spring Cover Screw | .03 |
| 58 | Carrier Block | 1.10 |
| 59 | Carrier Lever | .35 |
| 60 | Carrier Lever Spring | .20 |
| 61 | Carrier Lever Spring Screw* | .03 |
| 62 | Set of Links | 1.00 |
| 63 | Link Pins* (2 .... Each, | .03 |
| 64 | Breech Pin Base | 1.10 |
| 65 | Breech Pin Piston | .60 |
| 66 | Firing Pin Retractor | .25 |
| 67 | Cartridge Extractor | .25 |
| 68 | Cartridge Extractor Pin | .02 |
| | | ** 2.20 |
| 69 | Hammer, Plain Lock* | .50 |
| 70 | Hammer, set lock, with fly | .80 |
| 71 | Hammer Screw | .05 |
| 72 | Hammer Stirrup, plain lock* | .15 |
| 73 | Hammer Stirrup, set lock‡ | .15 |
| 74 | Hammer Stirrup, pin, plain or set lock | .02 |
| 75 | Hammer Fly† | .20 |
| 76 | Mainspring, plain lock | .30 |
| 77 | Mainspring, set lock | .40 |
| 78 | Mainspring Screw | .05 |
| 79 | Mainspring Strain Screw | .05 |
| 80 | Trigger, plain lock | .50 |
| 81 | Trigger, set lock† | .70 |
| 82 | Trigger, adjusting screw† | .05 |
| 83 | Sear, plain lock | .40 |
| 84 | Sear, set lock | .60 |
| 85 | Sear Spring, plain lock† | .05 |
| 86 | Sear Spring, set lock | .10 |
| 87 | Sear Spring Screw, plain lock† | .03 |
| 88 | Sear Spring Screw, set lock† | .03 |
| 89 | Sear Pin | .02 |
| 90 | Safety Catch | .40 |
| 91 | Safety Catch Spring† | .10 |
| 92 | Safety Catch Pin† | .02 |
| 93 | Knock-off† | .60 |
| 94 | Knock-off Spring† | .30 |
| 95 | Knock-off Spring Stop Pin† | .02 |
| 96 | Catch Hook† | .30 |
| 97 | Catch Hook Spring† | .15 |
| 98 | Catch Hook Spring Pin† | .03 |
| 99 | Finger Lever Catch | .25 |
| 100 | Finger Lever Catch Pin | .02 |
| 101 | Finger Lever Catch Spring | .05 |
| 102 | Wiping Rod, carbine* | .25 |
| 103 | Wiping Rod, musket | .50 |

In ordering any article on the above list, use the name by which the part we cut is specified in the list, and be sure to state for which model and caliber it is wanted.

*The part the same for 1866 and 1873 models.

†This part the same for 1873 and 1876 models.

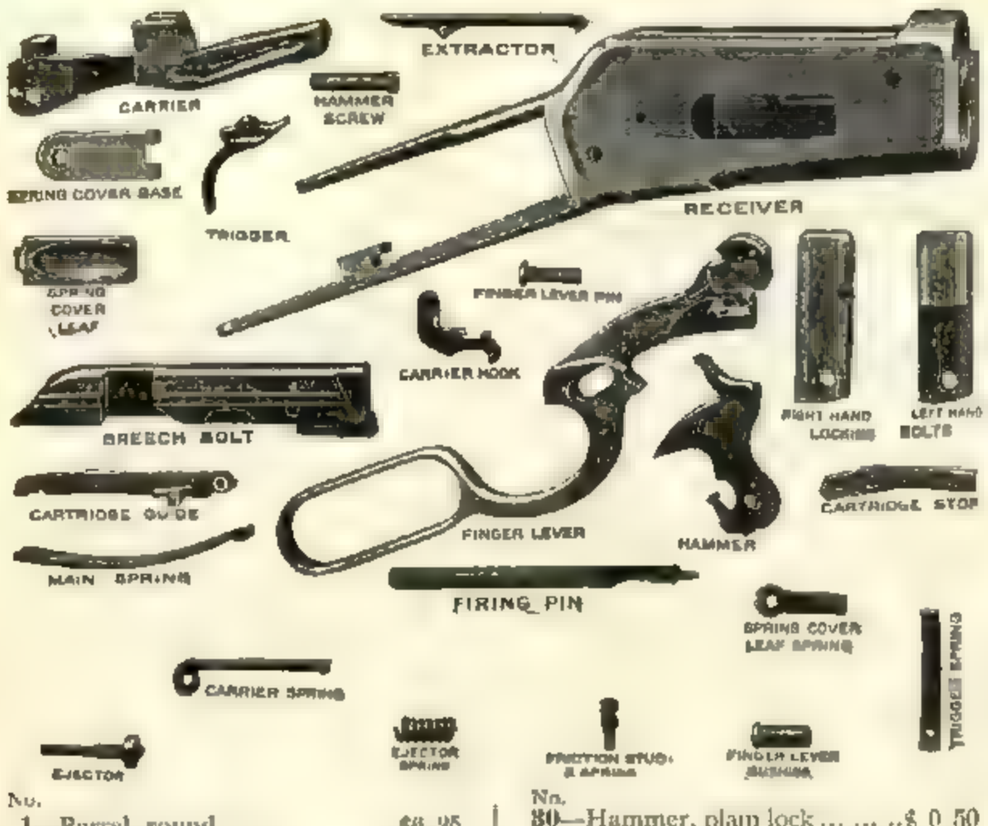
‡This part the same for 1866, 1873 and 1876 models.

**For the .22 caliber rifle $1.90.

PACIFIC HARDWARE & STEEL CO.
SAN FRANCISCO, CALIFORNIA

# COMPONENT PARTS WINCHESTER REPEATING RIFLES.

## MODEL 1886.




| No. | | |
|---|---|---|
| 1 | Barrel, round | $6.25 |
| 2 | Barrel, octagon, or half octagon | 8 00 |
| 3 | Breech Bolt | 3.00 |
| 4 | Butt Stock | 1.40 |
| 5 | Butt Plate | 80 |
| 6 | Butt Plate Screws (2) | Each, 05 |
| 7 | Carrier | 2 00 |
| 8 | Carrier Spring | .20 |
| 9 | Carrier Spring Screw | 05 |
| 10 | Carrier Hook | .55 |
| 11 | Ejector | .55 |
| 12 | Ejector Spring | 10 |
| 13 | Extractor | .25 |
| 14 | Extractor Pin | 02 |
| 15 | Cartridge Guide | 80 |
| 16 | Cartridge Guide Screw | .05 |
| 17 | Cartridge Stop | 35 |
| 18 | Cartridge Stop Screw | 05 |
| 19 | Finger Lever | 1.50 |
| 20 | Finger Lever Pin | 20 |
| 21 | Finger Lever Bushing | 20 |
| 22 | Finger Lever Friction Stud | .10 |
| 23 | Finger Lever Friction Spring | 05 |
| 24 | Finger Lever Friction Pin | 02 |
| 25 | Firing Pin | 50 |
| 26 | Forearm | 60 |
| 27 | Forearm Tip | 80 |
| 28 | Forearm Tip Screws (2 | 05 |
| 29 | Forearm Tenon | 40 |

| No. | | |
|---|---|---|
| 30 | Hammer, plain lock | $ 0 50 |
| 31 | Hammer Screw | .10 |
| 32 | Lever Connecting Pin | 02 |
| 33 | Locking Bolt, right hand | .60 |
| 34 | Locking Bolt, left hand | 60 |
| 35 | Lower Tang | 2 00 |
| 36 | Lower Tang Screw | .05 |
| 37 | Magazine Tube | 1.60 |
| 38 | Magazine Spring | .20 |
| 39 | Magazine Muzzle Plug | .10 |
| 40 | Magazine Muzzle Plug Screw | 03 |
| 41 | Magazine Follower | 10 |
| 42 | Magazine Ring | 10 |
| 43 | Magazine Ring Pin | 02 |
| 44 | Mainspring, plain lock | 30 |
| 45 | Mainspring Strain Screw | 05 |
| 46 | Receiver | 10 00 |
| 47 | Spring Cover Base | 60 |
| 48 | Spring Cover Leaf | 40 |
| 49 | Spring Cover Leaf Pin | 02 |
| 50 | Spring Cover Leaf Spring | 10 |
| 51 | Spring Cover Screw | 05 |
| 52 | Stirrup | 15 |
| 53 | Stirrup Pin | .02 |
| 54 | Trigger | 45 |
| 55 | Trigger Pin | 02 |
| 56 | Trigger Spring | 10 |
| 57 | Trigger Spring Screw | .05 |
| 58 | Upper Tang Screw | .10 |

## MODEL 1890.

| No. | | |
|---|---|---|
| 1 | Barrel, octagon, 24 inches | $8 00 |
| 2 | Receiver | 4 00 |
| 3 | Guard | 2 50 |
| 4 | Assembling Screw | 15 |
| 5 | Assembling Screw Bushing | 15 |
| 6 | Guard Pins (2) | Each, 05 |
| 7 | Breech-block | 1 25 |
| 8 | Carrier | 1 00 |
| 9 | Carrier Lever | 15 |
| 10 | Carrier Lever Pin | 05 |
| 11 | Carrier Lever Spring | 10 |
| 12 | Carrier Lever Spring Screw | 05 |
| 13 | Action Slide | 1 00 |
| 14 | Slide Cover | 10 |
| 15 | Slide Cover Screw | 05 |
| 16 | Slide Handle | .50 |
| 17 | Slide Handle Screws (2) | .10 |
| 18 | Extractor | .25 |
| 19 | Extractor Pin | 03 |
| 20 | Firing Pin | .30 |
| 21 | Firing Pin Spring | .05 |

| No. | | |
|---|---|---|
| 22 | Firing Pin Stop | $0.10 |
| 23 | Firing Pin Stop Screws (2) | .10 |
| 24 | Butt Plate | .80 |
| 25 | Butt Stock | 1 40 |
| 26 | Hammer | .50 |
| 27 | Hammer Pin | .05 |
| 28 | Trigger | .45 |
| 29 | Trigger Pin | 02 |
| 30 | Trigger Spring | .10 |
| 31 | Trigger Spring Screw | 05 |
| 32 | Magazine Tube, outside | 1 00 |
| 33 | Magazine, inside, complete | 2 00 |
| 34 | Magazine Plug | .10 |
| 35 | Magazine Ring | 40 |
| 36 | Magazine Spring | 20 |
| 37 | Magazine Stop Spring | .15 |
| 38 | Mainspring | .30 |
| 39 | Mainspring Screw | .05 |
| 40 | Mainspring Strain Screw | .05 |
| 41 | Magazine Follower | .10 |

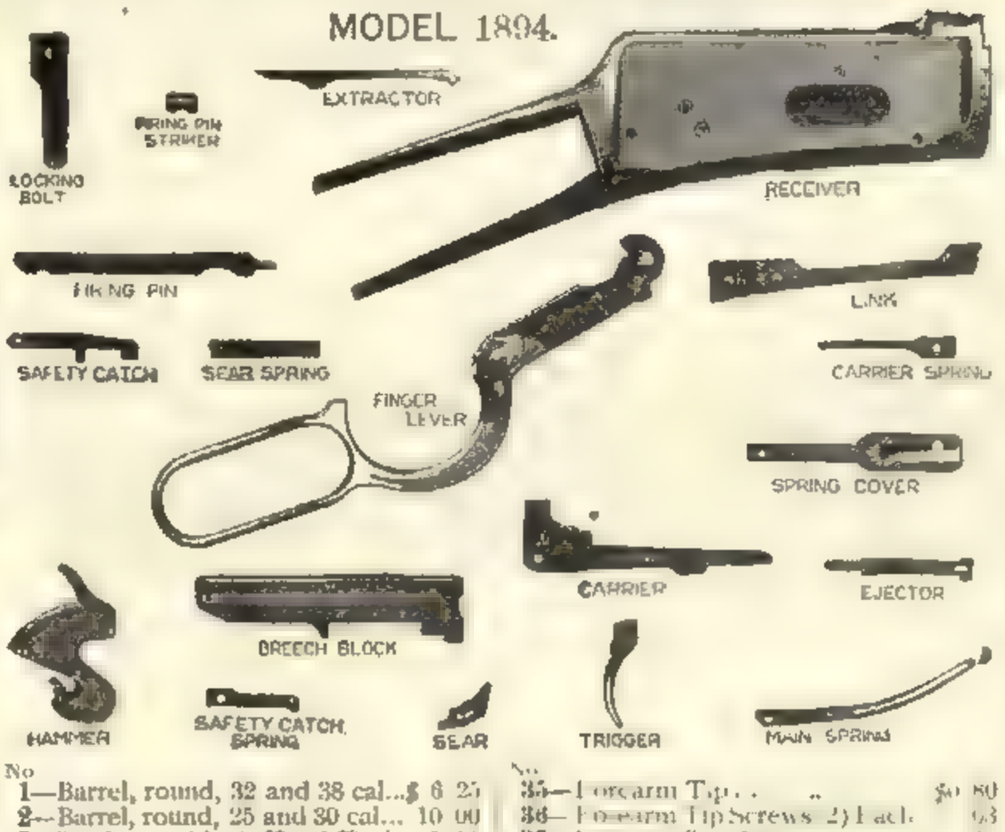
# COMPONENT PARTS WINCHESTER REPEATING RIFLES.

## MODEL 1892.

| No | | |
|---|---|---|
| 1 | —Barrel, round | $0 25 |
| 2 | —Barrel, octagon or half octagon | 8 00 |
| 3 | —Barrel, carbine | 5 50 |
| 4 | —Breech-bolt | 3 00 |
| 5 | —Butt Stock | 1 40 |
| 6 | —Butt Plate | 80 |
| 7 | —Butt Plate Screws (2) Each, | 05 |
| 8 | —Carrier | 1 00 |
| 9 | —Carrier Stop | 10 |
| 10 | —Carrier Stop Pin | .02 |
| 11 | —Carrier Stop Spring | 05 |
| 12 | —Carrier Screws (2) Each, | .05 |
| 13 | —Cartridge Guide, right hand | 30 |
| 14 | —Cartridge Guide, left hand | 10 |
| 15 | —Cartridge Guide, left hand, 32 caliber | .60 |
| 16 | —Cartridge Guide Screws (2) | 05 |
| 17 | —Cartridge Stop | 30 |
| 18 | —Cartridge Stop Pin | 02 |
| 19 | —Cartridge Stop Spring | 15 |
| 20 | —Ejector, with collar and spring | 45 |
| 21 | —Extractor | 25 |
| 22 | —Extractor Pin | 02 |
| 23 | —Finger Lever | 1.50 |
| 24 | —Finger Lever Pin | .20 |
| 25 | —Finger Lever Pin Stop Screw | .05 |
| 26 | —Friction Stud | 10 |
| 27 | —Friction Stud Spring | .05 |
| 28 | —Friction Stud Pin | .02 |
| 29 | —Firing Pin | .50 |
| 30 | —Firing Pin Stop Pin | .05 |

| No | | |
|---|---|---|
| 31 | —Forearm | $0 60 |
| 32 | —Forearm Tip | 80 |
| 33 | —Forearm Tip Screws (2) Each, | 03 |
| 34 | —Forearm Tip Tenon | 40 |
| 35 | —Hammer | 50 |
| 36 | —Hammer Stirrup | .15 |
| 37 | —Hammer Stirrup Pin | 02 |
| 38 | —Hammer Screw | 05 |
| 39 | —Locking Bolt, right hand | .60 |
| 40 | —Locking Bolt, left hand | .60 |
| 41 | —Locking Bolt Pin | 20 |
| 42 | —Locking Bolt Screw | .05 |
| 43 | —Mainspring | .30 |
| 44 | —Mainspring Screw | 05 |
| 45 | —Mainspring Strain Screw | .05 |
| 46 | —Magazine Tube | 1.60 |
| 47 | —Magazine Follower | .10 |
| 48 | —Magazine Spring | .20 |
| 49 | —Magazine Plug | 10 |
| 50 | —Magazine Plug Screw | .03 |
| 51 | —Magazine Ring | 40 |
| 52 | —Magazine Ring Pin | 02 |
| 53 | —Receiver, complete with tang | 8 00 |
| 54 | —Receiver Tang | 1 20 |
| 55 | —Spring Cover | .30 |
| 56 | —Spring Cover Screw | .03 |
| 57 | —Trigger | 45 |
| 58 | —Trigger Pin | 02 |
| 59 | —Trigger Spring | .10 |
| 60 | —Trigger Spring Screw | .05 |
| 61 | —Tang Screw | .10 |

## MODEL 1894.




| No | | |
|---|---|---|
| 1 | —Barrel, round, 32 and 38 cal | $ 6 25 |
| 2 | —Barrel, round, 25 and 30 cal | 10 00 |
| 3 | —Barrel, oct. or hf. oct., 32 and 38 cal | 8 00 |
| 4 | —Barrel, oct. or hf. oct., 25 and 30 cal | 10 00 |
| 5 | —Breech-bolt | 3 00 |
| 6 | —Butt Stock | 1 40 |
| 7 | —Butt Plate | 80 |
| 8 | —Butt Plate Screws (2) Each, | 05 |
| 9 | —Carrier | 1 00 |
| 10 | —Carrier Spring | 20 |
| 11 | —Carrier Screws (2) Each, | 05 |
| 12 | —Carrier Stop | 10 |
| 13 | —Carrier Stop Pin | 02 |
| 14 | —Carrier Stop Spring | 15 |
| 15 | —Cartridge Guide, right hand | 30 |
| 16 | —Cartridge Guide, left hand | 40 |
| 17 | —Cartridge Guide Screws (2) | 05 |
| 18 | —Ejector | 45 |
| 19 | —Ejector Spring | 05 |
| 20 | —Ejector Stop Pin | 02 |
| 21 | —Extractor | 25 |
| 22 | —Extractor Pin | 02 |
| 23 | —Finger Lever | 1 50 |
| 24 | —Finger Lever Pin | 20 |
| 25 | —Finger Lever Pin Stop Screw | 05 |
| 26 | —Finger Lever Link Screw | 10 |
| 27 | —Friction Stud | 10 |
| 28 | —Friction Stud Spring | 05 |
| 29 | —Friction Stud Pin | 02 |
| 30 | —Firing Pin | 50 |
| 31 | —Firing Pin Stop Pin | 05 |
| 32 | —Firing Pin Striker | 10 |
| 33 | —Firing Pin Striker Stop Pin | .05 |
| 34 | —Forearm | .60 |

| No | | |
|---|---|---|
| 35 | —Forearm Tip | $0 80 |
| 36 | —Forearm Tip Screws (2) Each | 03 |
| 37 | —Forearm Tip Tenon | 40 |
| 38 | —Hammer | 50 |
| 39 | —Hammer Stirrup | 15 |
| 40 | —Hammer Stirrup Pin | 02 |
| 41 | —Hammer Screw | 05 |
| 42 | —Link | 1 00 |
| 43 | —Link Pin | 20 |
| 44 | —Link Pin Screw | 05 |
| 45 | —Mainspring | 30 |
| 46 | —Mainspring Screw | 05 |
| 47 | —Mainspring Strain Screw | 05 |
| 48 | —Magazine Tube | 1 60 |
| 49 | —Magazine Follower | 10 |
| 50 | —Magazine Spring | 20 |
| 51 | —Magazine Plug | 10 |
| 52 | —Magazine Plug Screw | 03 |
| 53 | —Magazine Ring | 10 |
| 54 | —Magazine Ring Pin | 02 |
| 55 | —Receiver, complete with tang | 8 00 |
| 56 | —Receiver Lower Tang | 1 20 |
| 57 | —Locking Bolt | 80 |
| 58 | —Spring Cover | 30 |
| 59 | —Spring Cover Screw | 03 |
| 60 | —Sear | 40 |
| 61 | —Sear Pin | 02 |
| 62 | —Sear Spring | 05 |
| 63 | —Sear Spring Screw | 03 |
| 64 | —Safety Catch | 40 |
| 65 | —Safety Catch Pin | 02 |
| 66 | —Safety Catch Spring | 10 |
| 67 | —Trigger | 30 |
| 68 | —Tang Screw | 10 |

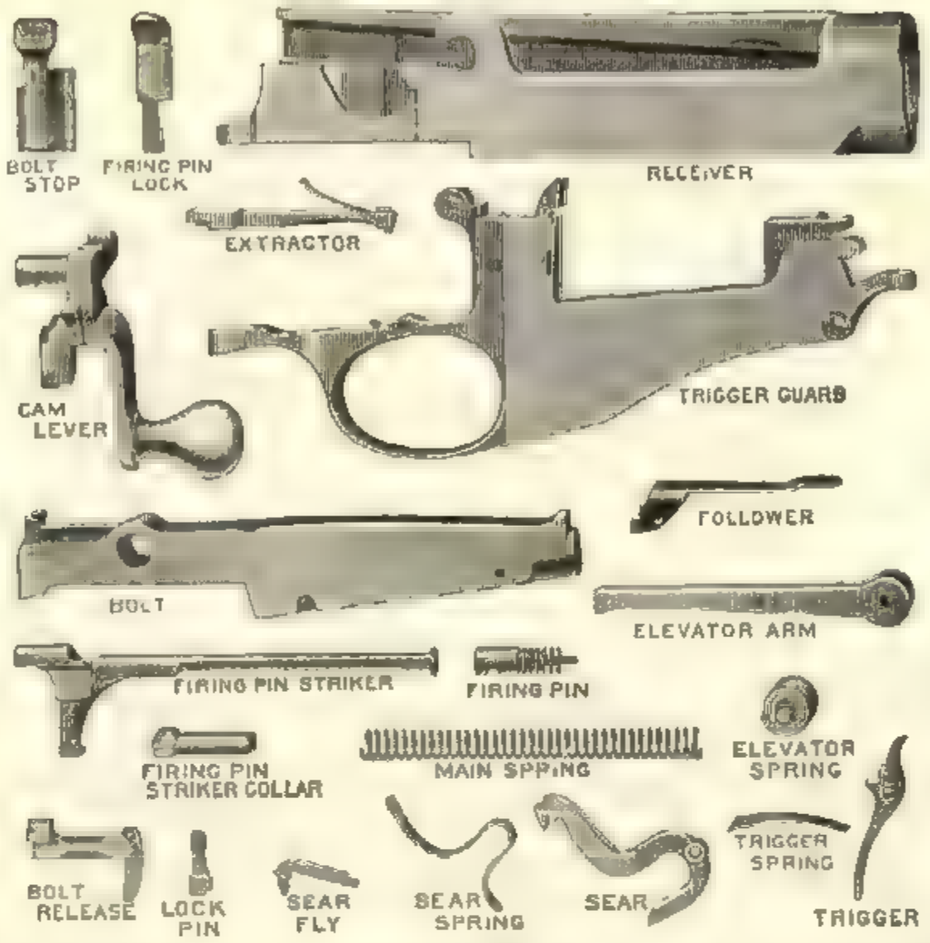
PACIFIC HARDWARE & STEEL CO.
SAN FRANCISCO, CALIFORNIA

# COMPONENT PARTS WINCHESTER REPEATING AND LEE STRAIGHT PULL RIFLES.

## REPEATING MODEL 1895.

| No. | | |
|---|---|---|
| 1 | Assembling Screw | $ 0 05 |
| 2 | Barrel, round, nickel steel, .30 and 303 caliber | 10 00 |
| 3 | Barrel, round, .38 and 40 calibers | 6 25 |
| 4 | Barrel, octagon, .38 and .40 calibers | 8 00 |
| 5 | Breech Bolt | 3 00 |
| 6 | Butt Stock | 1 40 |
| 7 | Butt Plate | 80 |
| 8 | Butt Plate Screws (2), Each, | 05 |
| 9 | Carrier | 1 00 |
| 10 | Carrier Screw | 05 |
| 11 | Carrier Spring | 35 |
| 12 | Carrier Stop Pin | 03 |
| 13 | Carrier Cradle | 40 |
| 14 | Carrier Cradle Pin | .03 |
| 15 | Carrier Cam Lever | 50 |
| 16 | Carrier Cam Lever Pin | .03 |
| 17 | Ejector | .30 |
| 18 | Ejector Pin | 05 |
| 19 | Ejector Spring | 10 |
| 20 | Extractor | .25 |
| 21 | Extractor Pin | 03 |
| 22 | Forearm | 1 00 |
| 23 | Forearm Stud | .15 |
| 24 | Forearm Screw | 05 |
| 25 | Finger Lever | 1.50 |
| 26 | Finger Lever Lock Spring | $0 25 |
| 27 | Finger Lever Lock | 25 |
| 28 | Finger Lever Link | 10 |
| 29 | Finger Lever Link Split Pin | 20 |
| 30 | Friction Stud | 10 |
| 31 | Friction Stud Spring | 05 |
| 32 | Friction Stud Pin | 02 |
| 33 | Firing Pin | .60 |
| 34 | Firing Pin Lock | .35 |
| 35 | Firing Pin Lock Pin | 01 |
| 36 | Hammer | .50 |
| 37 | Hammer Screw | 10 |
| 38 | Link | 1 00 |
| 39 | Link Pin | 05 |
| 40 | Locking Bolt | 1 50 |
| 41 | Mainspring | 50 |
| 42 | Mainspring Screw | 05 |
| 43 | Mainspring Strain Screw | 05 |
| 44 | Magazine | 1 00 |
| 45 | Magazine Tip Screw | 05 |
| 46 | Receiver | 8 00 |
| 47 | Sear | .40 |
| 48 | Sear Pin | .08 |
| 49 | Sear Spring | .20 |
| 50 | Sear Spring Screw | .05 |
| 51 | Trigger | 30 |
| 52 | Trigger Pin | .08 |
| 58 | Tang Screw | .10 |

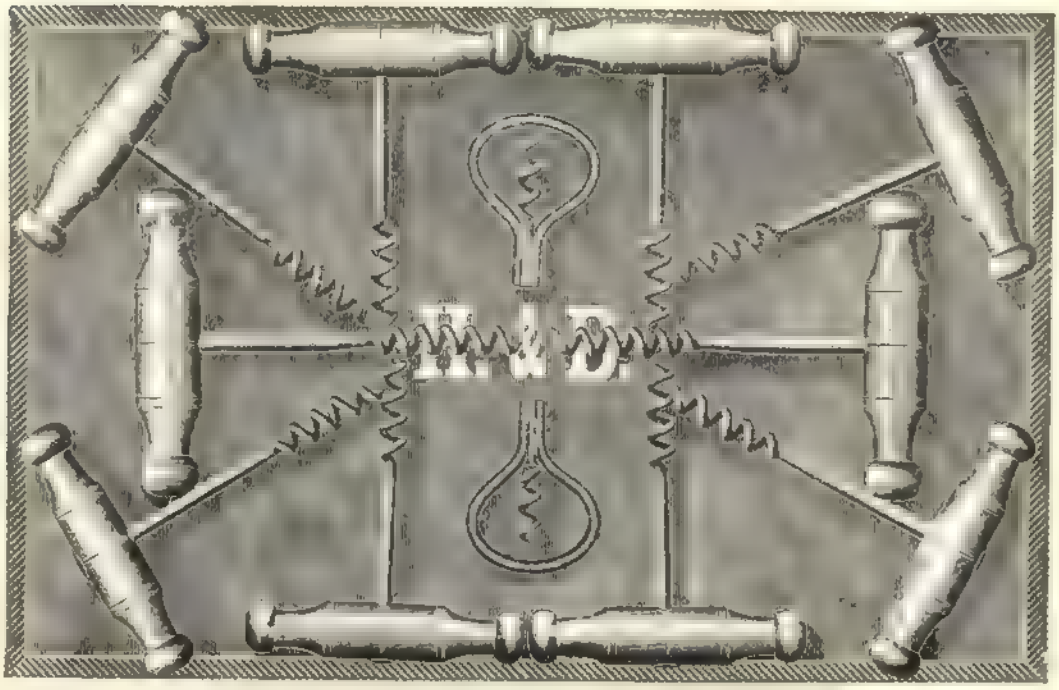
## LEE STRAIGHT PULL RIFLE.



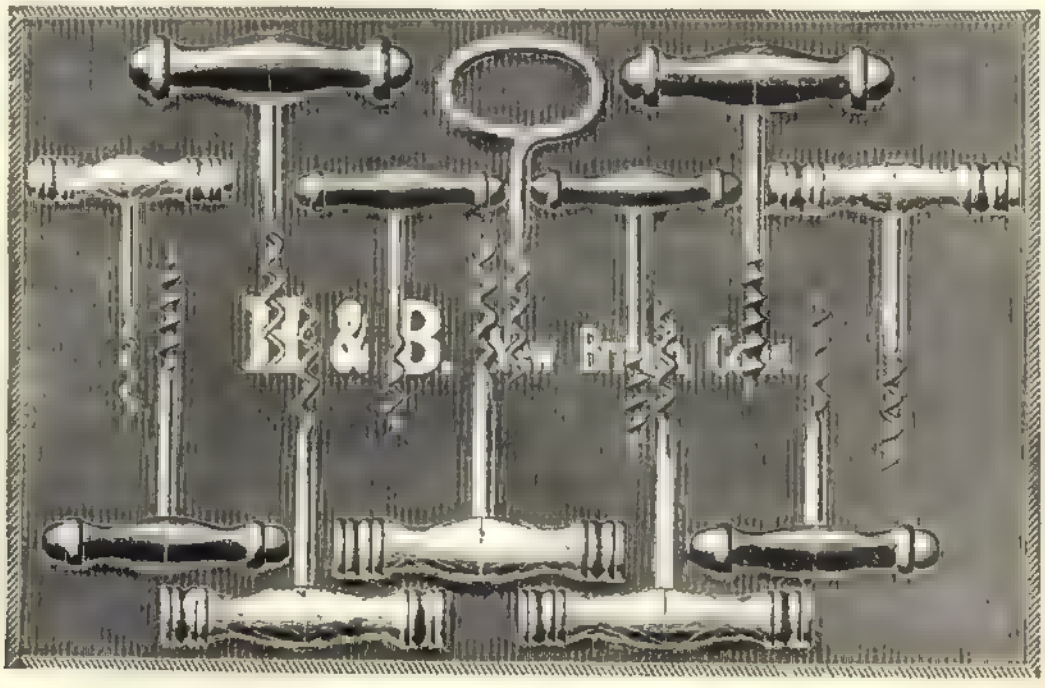

| No. | | |
|---|---|---|
| 1 | Barrel | $15 00 |
| 2 | Barrel Cover | 1 00 |
| 3 | Bolt | 4 00 |
| 4 | Bolt Stop | 2 00 |
| 5 | Bolt Release | 1 00 |
| 6 | Butt Plate | 85 |
| 7 | Butt Plate Screws | 05 |
| 8 | Cam Lever | 2 30 |
| 9 | Extractor | 75 |
| 10 | Elevator Arm | 55 |
| 11 | Elevator Spring | 50 |
| 12 | Follower and Stop Pin | 50 |
| 13 | Follower Hinge Rivet | 03 |
| 14 | Firing Pin | 1 40 |
| 15 | Firing Pin Spring | 05 |
| 16 | Firing Pin Stop Pin | 03 |
| 17 | Firing Pin Striker | 1 0 |
| 18 | Firing Pin Striker Collar | 70 |
| 19 | Firing Pin Lock | 1 15 |
| 20 | Lock Pin | 15 |
| 21 | Lower Band | 75 |
| 22 | Lower Band Screw | 03 |
| 23 | Mainspring | 40 |
| 24 | Receiver | 10 00 |
| 25 | Receiver Tang Screw | 05 |
| 26 | Rear Sight | 2.00 |
| 27 | Sear | $ 0.85 |
| 28 | Sear Pin | 03 |
| 29 | Sear Spring | .15 |
| 30 | Sear Fly | .45 |
| 31 | Stock, musket | 6 00 |
| 32 | Stock, carbine | 6 00 |
| 33 | Stock, sporting rifle | 10 00 |
| 34 | Stock Swivel Base | 25 |
| 35 | Stock Swivel Base Screws | 05 |
| 36 | Trigger | 35 |
| 37 | Trigger Pin | 03 |
| 38 | Trigger Guard | 6 00 |
| 39 | Trigger Guard Screw | 05 |
| 40 | Trigger Spring | 05 |
| 41 | Trigger Spring Screw | 05 |
| 42 | Upper Band | 2 25 |
| 43 | Upper Band Screw | .03 |
| 44 | Sling Strap, leather only | .60 |
| 45 | Sling Strap Button | .10 |
| 46 | Sling Strap Side, with sleeve | .30 |
| 47 | Sling Strap Securing Hook | .10 |
| 48 | Sling Strap Snap Swivel | 50 |
| 49 | Bayonet | 4.50 |
| 50 | Bayonet Scabbard | 1.50 |

† Sporting rifle, $0.80.

# CORKSCREWS.




**No. 700**—One dozen assorted on card ..... Per dozen, $2 50




**No. 400**—One dozen assorted on card ..... Per dozen, $2 50

Six dozen in box

# CORKSCREWS.

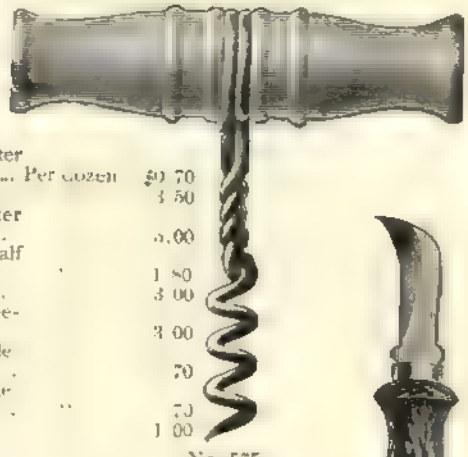
No. 246

No. 333.

Nos. 36 and 36½

No. 46.

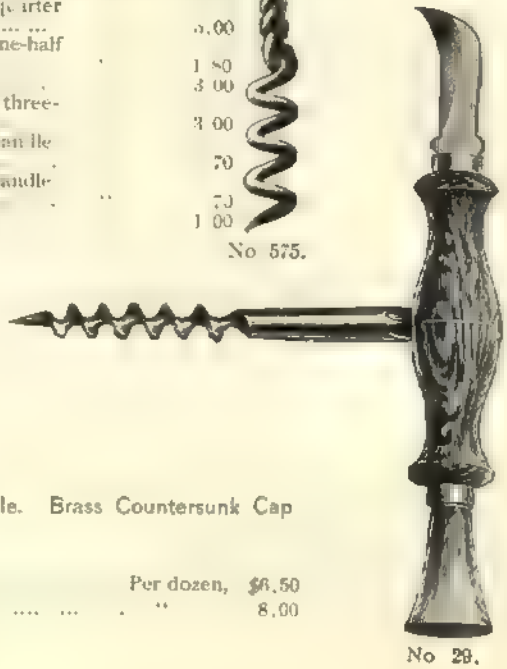
No. 574.



No. 575.

**No. 333** —One piece solid steel wire, tinned. Cut, three-quarter size..... Per dozen $0 70
**No. 36** —Tinned. Maple handle. Cut, three-quarter size.. 3 50
**No. 36½**—Nickel-plated. Rosewood handle. Cut, three-quarter size..... 5.00
**No. 46** —Nickel-plated. Polished maple handle. Cut, one-half size..... 1 80
**No. 48** —Same as No. 46. Screw, 1¼ inches longer..... 3 00
**No. 246** —Nickel plated. Polished maple handle. Cut, three-quarter size..... 3 00
**No. 574** —Nickel-plated. Fancy cherry stained hardwood handle. Cut, full size..... 70
**No. 575** —Nickel-plated. Fancy cherry stained hardwood handle. Cut, full size..... 70
**No. 717** —Same as No. 575. Screw, 1¼ inches longer..... 1 00

No. 27.



No. 29.

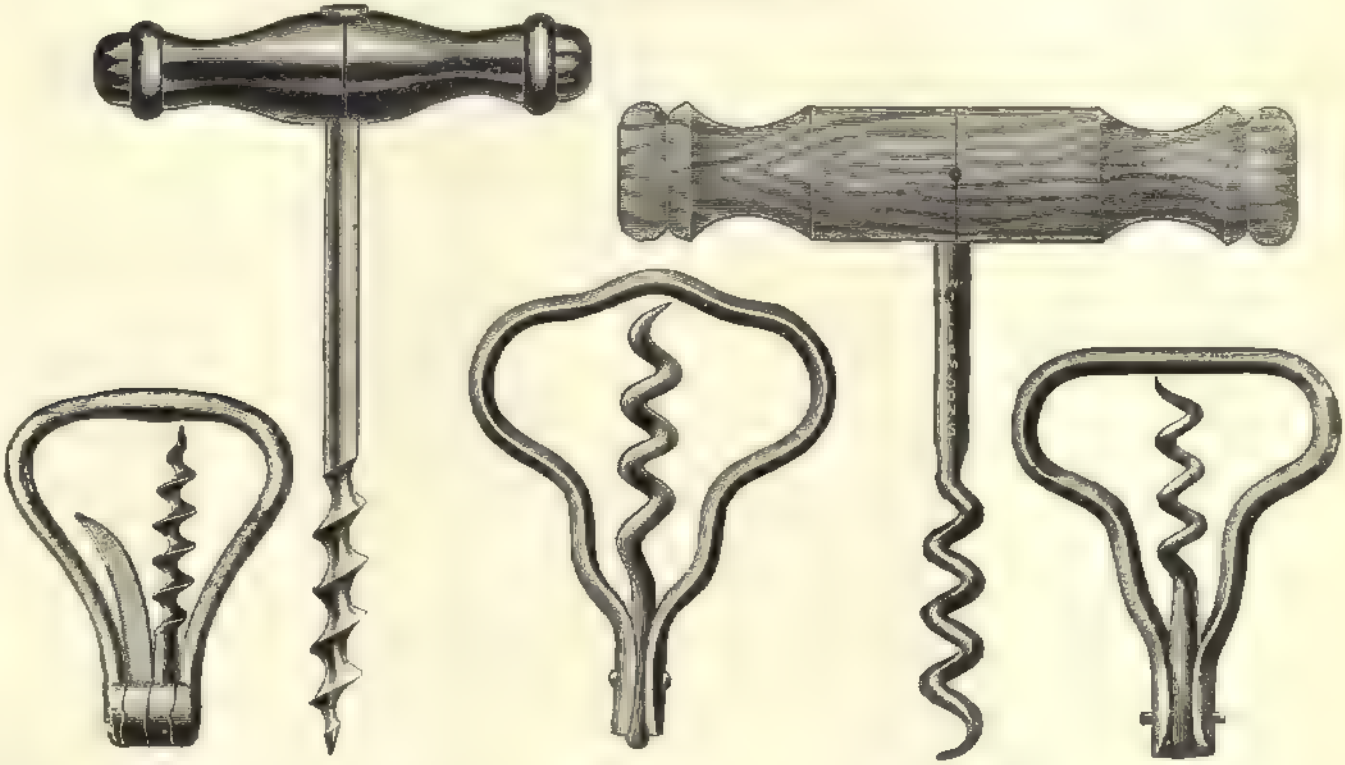
Forged from Superior Quality Cast Steel. Cocobolo Handle. Brass Countersunk Cap Riveted Shank

**No. 27**—Cut, one-half size..... Per dozen, $6.50
**No. 29**— " " " ..... " 8.00

One dozen in box.

PACIFIC HARDWARE & STEEL COMPANY

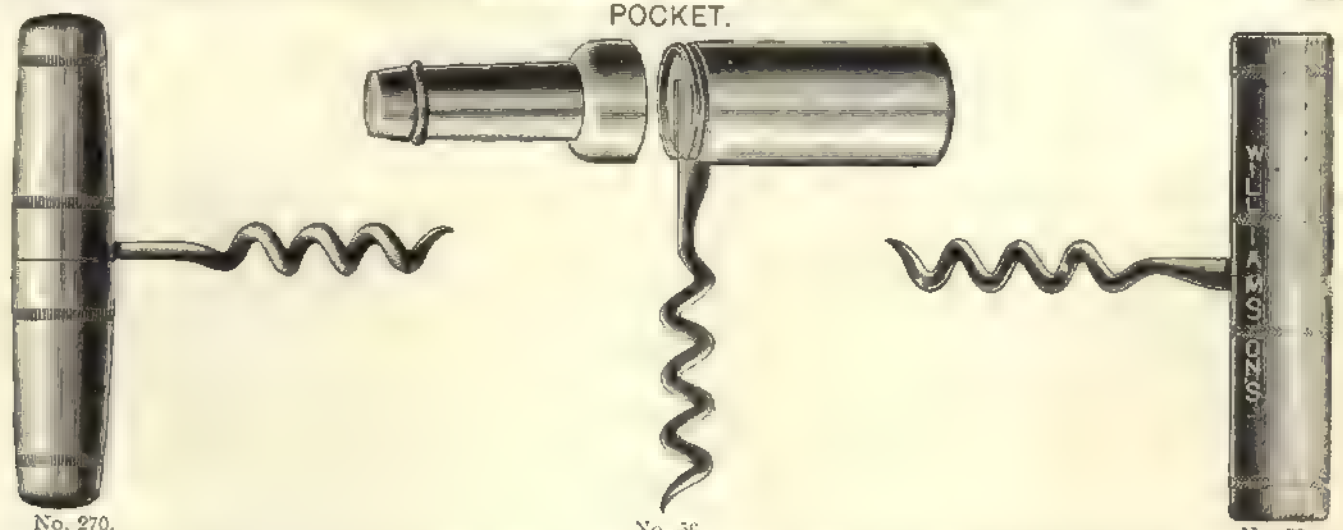
# CORKSCREWS.



No. 39. No. 115 No. 57. Nos. 50 and 51 No. 62½.

| | | |
|---|---|---|
| **No. 39** | —Combination Corkscrew and Wire cutter. Full nickel-plated. Cut, one-half size. Per dozen, | $8 00 |
| **No. 115** | —Polished screw. Cherry stained hardwood handle. Cut, three-quarter size " | 1 50 |
| **No. 119** | —Same as No 115. Screw, 1 inch longer " | 1 80 |
| **No. 57** | —Nickel-plated. Cut, full size " | 1 80 |
| **No. 50** | — " " Lignumvitæ handle. Cut, three-quarter size " | 6 00 |
| **No. 51** | —Polished Cocoa handle Cut, three-quarter size " | 4 00 |
| **No. 62½** | Nickel plated. Cut, three-quarter size " | 2 50 |

## POCKET.



No. 270. No. 56 No. 70.

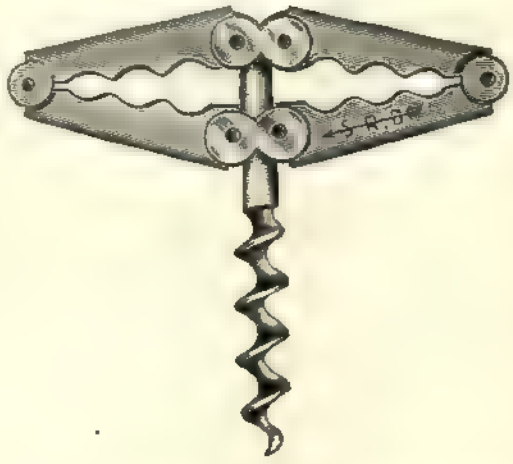
| | | | | | | |
|---|---|---|---|---|---|---|
| **No. 270**—Folding. | Telescope pattern. | Full nickel-plated. | Cut, full size. | | Per dozen, | $3 00 |
| **No. 56**— " | Bottle " | " " | " " | | " | 3 50 |
| **No. 70**— " | Telescope " | " " | " " | | " | 3.00 |

One dozen in box.

# CORKSCREWS.

## POCKET.

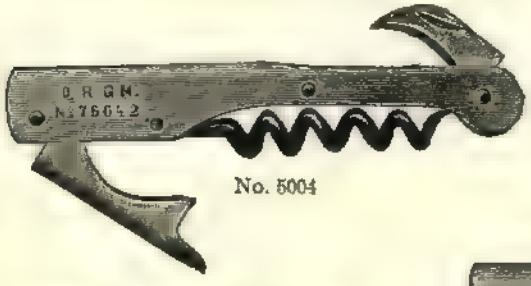
No. 18.



No. 5001.

No. 557.

**No. 18**—Detachable handle. Full nickel-plated. Cut, three-quarter size ..... Per dozen, $12.00
**No. 5001**—Folding. Nickel-plated Cut, full size..... " 4.00
**No. 557**— " Enameled and nickel-plated. Cut, full size..... " 12.00



No. 5004

**No. 5004**—Combination Corkscrew, Wire cutter and Lever. Full nickel-plated Cut, three-quarter size..... Per dozen, $10.50

## SELF PULLING.

No. 8082.

No. 922

No. 5002

**No. 8082**—Nickel-plated. Maple handle. Cut, one-half size..... Per dozen, $4 50
**No. 642**—Same as No. 8082. Nickel-plated, highly polished. Fancy cocobolo handle. Cut, one-half size..... " 7 50
**No. 922**—Nickel-plated. Applewood handle. Cut, one-half size..... " 7.50
**No. 5002**— " Beechwood " " " " ..... " 4.00

One dozen in box.

## CORKSCREWS.

### SELF PULLING.

Nos. 5003 and 100N

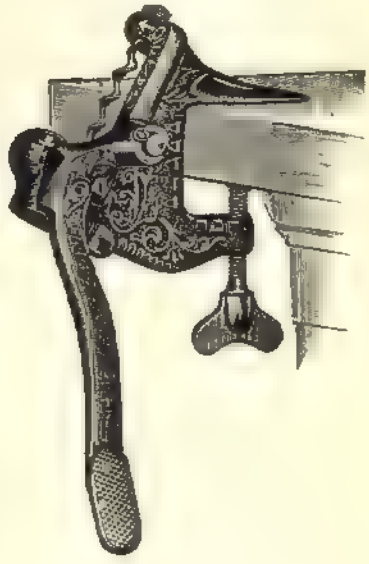
No. 19N.

**No. 5003** —Polished frame and handle. Cut, one-half size..... Per dozen, $ 9.00
**No. 100 N**—Same as No. 5003. Full nickel plated. Cut, one-half size..... " 15 00
**No. 19 N**—Full nickel-plated. Cut, one-half size..... " 27.00

One-half dozen in box.

## CORK PULLS.

### MODERN.



No. 1.

**No. 1**—Clamp. Nickel-plated..... Per dozen, $42.00
**No. 2**—Same as No. 1. Wall attachment. Nickel-plated..... " 96.00
Extra worms for Nos. 1 and 2..... " 9 00

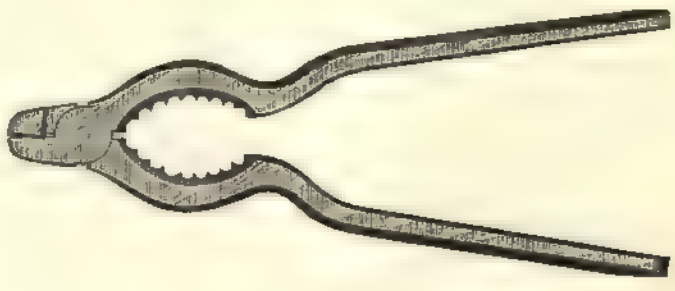
One in box.

## CHAMPAGNE TAPS.

No. 1900.

No. 2100.

## CHAMPAGNE NIPPERS.



No 1000

**No. 1900**—Full nickel-plated. With gimlet. Cut, one-third size..... Per dozen, $ 9 00
**No. 2100**— " " " " " " " " " " " 12.00
**No. 1000**— " " Cut, one-half size..... Each 7 00

No. 1000, six, balance, one in box.

# SEWING MACHINES.

**BONITA**
BALL BEARING

**No. 108**—Five-drawer upright. Handsome oak case Weight, crated for shipment, 110 lbs Shipping dimensions crated, 19x37x42 inches.

**No. 109**—Five-drawer drop head. Oak case. Nickel-plated drawer pulls. Weight, crated for shipment, 110 lbs. Shipping dimensions crated, 20x32x35 inches.

**No. 110**—Five-drawer drop head. Rope design drawer cases. Finished in golden oak. Hand polished. Weight, crated for shipment, 110 lbs. Shipping dimensions crated, 20x32x35 inches.

**No. 111**—Five-drawer drop head. Finished in golden oak. Bronze drawer pulls. Weight, crated for shipment, 110 lbs. Shipping dimensions crated, 20x32x35 inches.

Prices on application.

# SEWING MACHINES.

**BONITA**
BALL BEARING

**No. 112**—Five-drawer drop head. Full quarter-sawed stock. Finished in golden oak, hand rubbed. Carved front and drawers rounded to conform to the general beauty and symmetry of the design, which is new and original. Weight, crated for shipment, 115 lbs. **Shipping dimensions,** crated, 20x32x35 inches.

**No. 113**—Five-drawer drop head cabinet. Latest design. Dark rich quarter-sawed golden oak. Colonial swell front, hand rubbed. Shipping weight and dimensions, same as No. 112

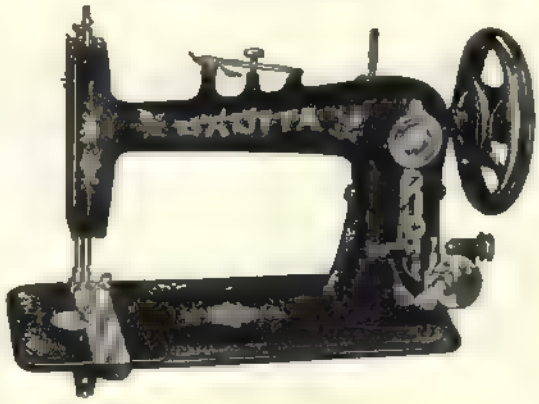
**No. 114**—Single door parlor cabinet. Paneled oak case. Raised carvings. Finished in rich golden oak. Especially designed for economy and space. Weight, crated for shipment, 110 lbs. **Shipping dimensions,** crated, 20x24x32 inches.

**No. 115**—Full double door desk cabinet. Finished in golden oak, highly polished. Weight, crated for shipment, 140 lbs. Shipping dimensions, crated, 23x29x32 inches

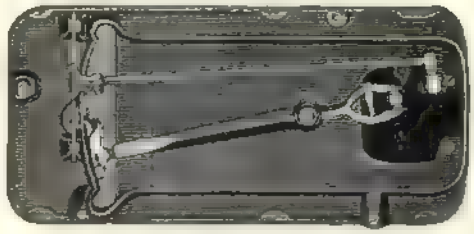
Prices on application

# SEWING MACHINES.

## BONITA BALL BEARING



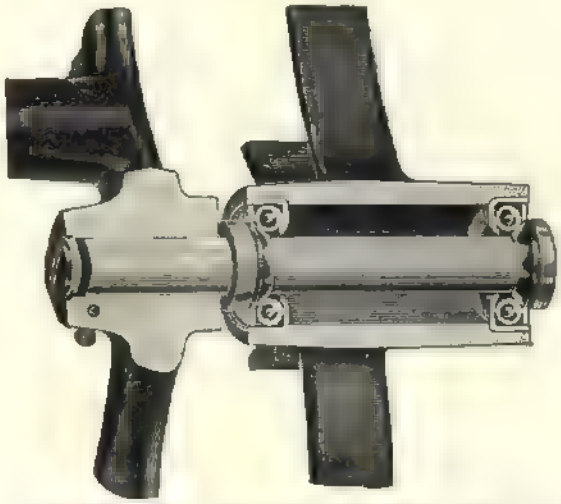
Head.



Underview of Head.
Note simplicity.

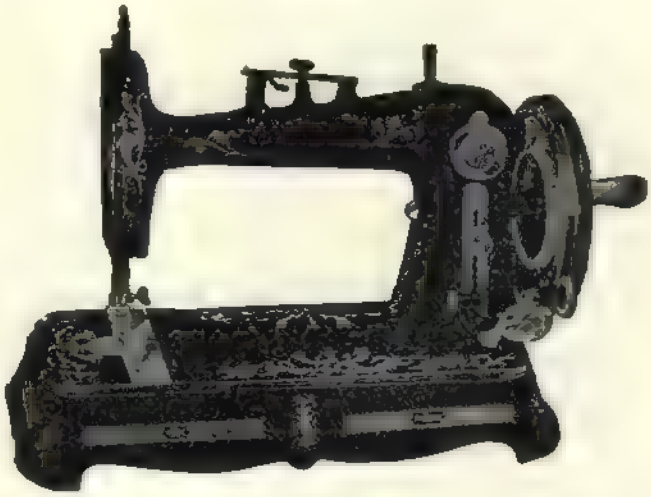
## BALL BEARING STAND.

Finest Made



To meet the universal demand for ball bearing stands, we have secured an improved pattern as shown above. The cut illustrates the construction. It's the best on the market, runs quiet and swift. This view shows the center of the right leg of the stand, and a section of the hub of balance wheel in which the ball bearings are placed. All wear and lost motion can be taken up by the turn of adjusting screw.

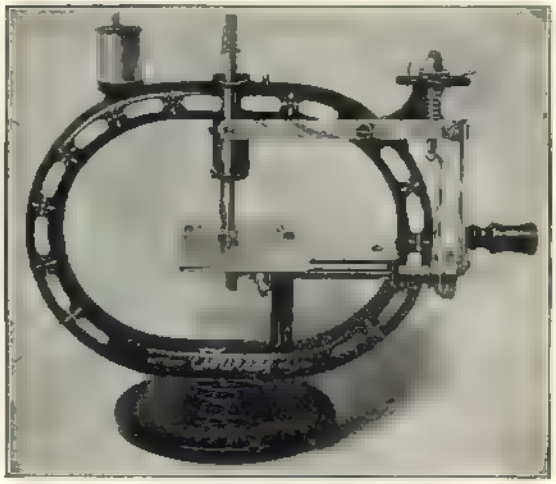
## HAND.



**No. 116**—This machine is full size arm and in every way up-to-date, and should not be confused with the little small low-arm "dinkey" hand machines that are being offered to the public.

Price on application.

## TOURIST. HAND.



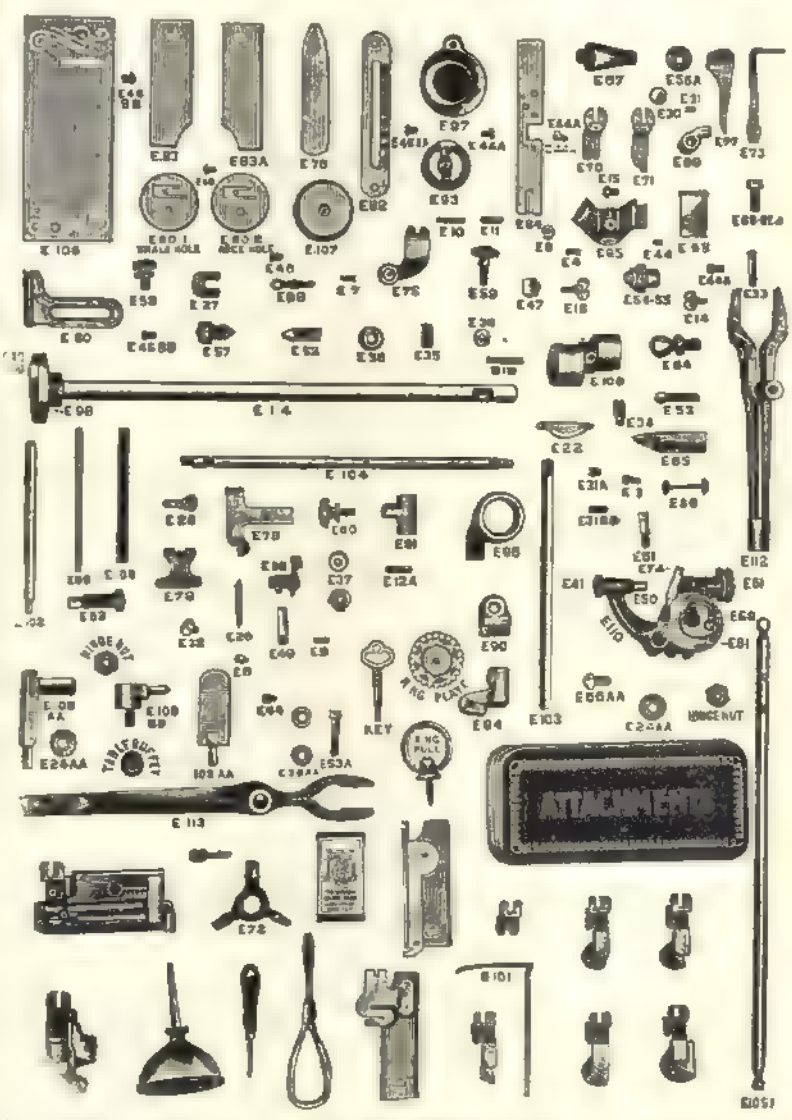
**No. 105**—A single thread automatic sewing machine at price within reach of all. Particular attention is called to the automatic tension of this machine, which excels all other hand machines on the market. Section of frame between arrows is removable for the purpose of admitting a large piece of goods when necessary. Frame is made of iron, finished with jet black enamel and ornamented. All other parts are of steel, nickel-plated and highly polished. Uses same needle as Wilcox & Gibbs. Can be clamped on any table or stand for immediate use.

Price on application

# SEWING MACHINE EXTRAS.

Orders should state number and name of part wanted, also number of machine given in the warranty; the latter can be found stamped on the front of bed plate, under the bobbin winder.

E 1—Hemmer pin..... Each, $0 05
E 2—Shuttle carrier spring screw..... " 05
E 3— " spring adj. screw..... " 05
E 4—Presser bar guide adj. screw..... " 05
E 4A—Crosshead gib " " ..... " 05
E 5—Needle clamp eyelet..... " 05
E 6—Take up spring pin..... " 05
E 7—Brake button check screw..... " 05
E 8—Feed bar roll..... " 05
E 9—Take up roll pin..... " 05
E10—Tension liberator pin..... " 05
E11—Feed bar pin..... " 05
E12—Shaft head dowel..... " 05
E13A—Hand wheel sleeve dowel..... " 05
E13AA—Hinge pin..... " 05
E14—Presser foot socket screw..... " 10
E15—Medallion screw..... " 05
E16—Needle clamp screw..... " 10
E17— " " " wing..... " 05
E18—Upper thread eyelet..... " 05
E19—Hemmer scroll..... " 05
E20—Stitch regulator sleeve screw washer..... " 05
E21— " " indicator..... " 05
E22—Shuttle spring..... " 05
E23— " carrier spring..... " 05
E24AA—Hinge screw washer..... " 05
E25—Bobbin winder distributor spring..... " 05
E26—Take up spring..... " 05
E27—Face plate thread eyelet..... " 05
E28—Bobbin winder plunger spring..... " 05
E29— " " worm wheel screw nut..... " 05
E30—Shuttle lever stud collar check screw..... " 05
E31—Presser bar gib set screw..... " 05
E31A—Crosshead screw..... " 05
E31B—Feed rod connection set screw..... " 05
E31BB—Hinge pawl set screw..... " 05
E32—Shuttle carrier screw..... " 05
E32A—Stitch regulator sleeve screw..... " 05
E33—Lifter screw..... " 05
E34—Eccentric set screw..... " 05
E35—Feed bar rod post screw..... " 05
E36— " " " " " nut..... " 05
E37—Take up roll..... " 05
E38AA—Shuttle lever ball washer..... " 05
E39—Crosshead roll..... " 05
E40—Shaft head stud..... " 10
E41—Bobbin winder plunger nut..... " 05
E42— " " worm wheel pivot screw..... " 05
E43— " " distributor " " " 05
E44—Upper thread eyelet screw..... " 05
E44A—Take up lever screw..... " 05
E44B—Bobbin winder heart cam screw..... " 05
E45AA—Feed dog screw..... " 05
E45BB— " bar bracket screw..... " 05
E46—Needle plate screw..... " 05
E46AA—Index " " " " " " " 05
E46BB—Face plate screw..... Each, $0 05
E47—Needle clamp..... " .35
E48—Spool pin..... " .05
E49—Take up pivot screw..... " .05
E50—Bobbin winder plunger..... " .10
E51— " " hinge screw " 05
E52—Fulcrum screw (right)..... " 10
E53—Eccentric fork screw..... " 10
E53A—Shuttle lever fork screw " .10
E54—Presser foot socket..... " .25
E55— " " " nut..... " .25
E56—Fulcrum screw check nut " 10
E56A—Shuttle lever stud collar " .10
E57—Fulcrum screw (left)..... " .20
E58—Sewing gauge screw..... " 20
E59—Upper tension " ..... " .20
E60—Stitch regulator " ..... " .20
E61—Bobbin winder pulley..... " 20




E62—Bobbin winder worm spindle..... Each, $0 25
E63—Presser bar tension screw..... " 20
E64—Fork ball..... " 20
E65AA—Hinge pawl..... " 10
E66AA— " screws..... " 05
E66BBB—Bed and arm screws..... " 05
E67—Shuttle lever stud..... " 35
E68—Feed dog..... " 35
E69—Bobbin winder heart cam " 05
E70—Presser foot..... " 25
E71—Hemmer..... " 90
E72—Screw-driver..... " 10
E73—Take up lever..... " 10
E74—Bobbin winder distributor " 10
E75—Tension liberator..... " .10
E76—Upper tension spring " 20
E77—Lifter..... " .25

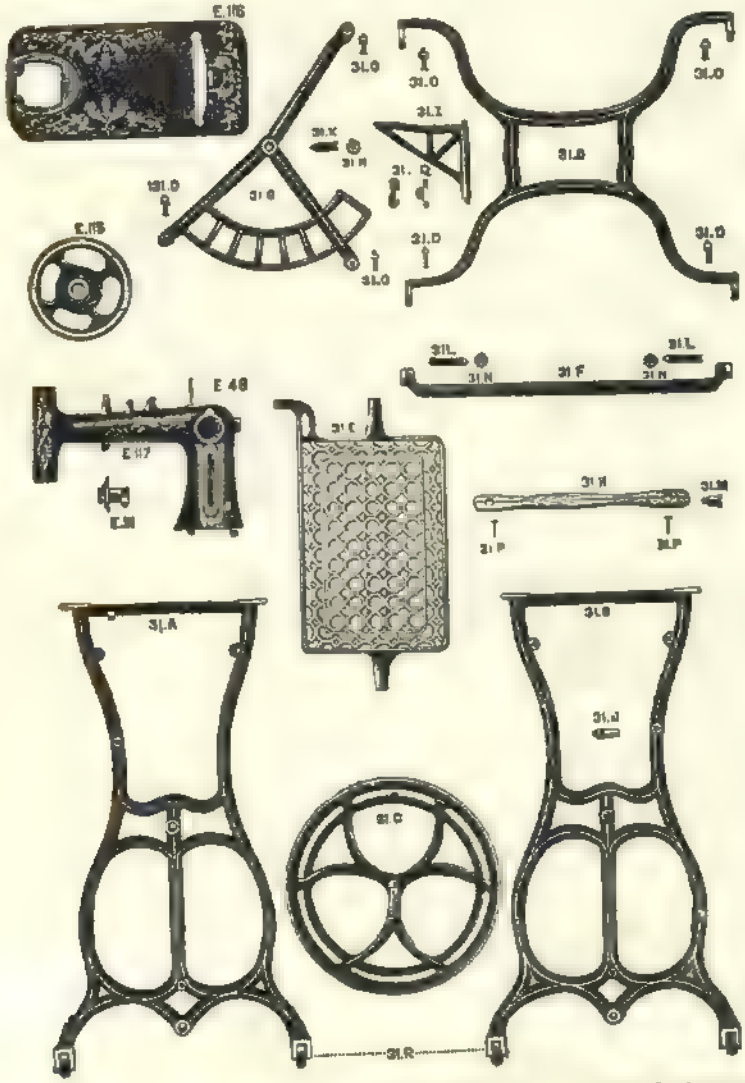
E78—Shuttle carrier..... Each, $0 25
E79—Feed bar bracket..... " .10
E80—Cloth guide..... " 10
E80—1 and 2 throat plate..... " .35
E81—Bobbin winder worm wheel..... " .20
E82—Stitch indicator plate..... " 10
E83—Slide (front)..... " 25
E83A—Slide (rear)..... " 25
E84—Feed bar..... " 25
E85—Shuttle..... 50
E86—Bobbin..... 05
E87—Needles..... Per dozen, 35
E88—Take up pivot..... Each, 20
E89—Presser bar guide..... " 15
E90—Stitch regulator slide block " 20
E91— " " sleeve..... " 25
E92—Shipping screw..... " 05

For additional list of extras, see next page.

# SEWING MACHINE EXTRAS.

| | | |
|---|---|---|
| E 93—Brake clutch washer | Each, | $0.05 |
| E 94—Eccentric feed rod connection | " | .50 |
| E 95—Crosshead | " | .45 |
| E 96—Eccentric strap | " | .35 |
| E 97—Medallion | " | .20 |
| E 98—Shaft head | " | .25 |
| E 99—Presser bar extension | " | .05 |
| E100— " " spring | " | .05 |
| E101—Quilter | " | .10 |
| E102—Presser bar | " | .50 |
| E103—Eccentric strap connection rod | " | .15 |
| E104—Needle bar | " | .75 |
| E105—Feed rod | " | .65 |
| E106—Face plate | Each, | $0.75 |
| E107—Brake button | " | .35 |
| E108AA—Hinge | " | 65 |
| E108BB— " upright machine | " | 50 |
| E108—Eccentric | " | .65 |
| E110—Bobbin winder frame | " | .65 |
| E111—Hand wheel sleeve | " | .55 |
| E112—Eccentric fork | " | 75 |
| E113—Shuttle lever | " | 95 |
| E114—Shaft | " | 1.00 |
| E115—Hand wheel | " | 1 85 |
| E116—Bed | " | 2 75 |
| E117—Arm | " | 4.50 |

## STAND FRAME PARTS.




| | | |
|---|---|---|
| 31 A—Left leg | Each, | $2 90 |
| 31 B—Right leg | " | 2 90 |
| 31 C—Balance wheel | " | 2.85 |
| 31 D—Brace | " | 2.60 |
| 31 E—Treadle | " | 1.25 |
| 31 F— " rod | " | .50 |
| 31 G—Wheel guard | " | .30 |
| 31 H—Wood pitman | " | .30 |
| 31 I—Leaf support bracket (for upright machines) | " | .30 |
| 31 J—Balance wheel pivot (outer) | " | .10 |
| 31 K— " " " (inner) | " | 10 |
| 31 L—Treadle pivots (2) | " | .10 |
| 31 M—Pitman stud screw | " | .10 |
| 31 N—Balance wheel and treadle pivot nuts (3) | " | .10 |
| 31 O—Brace and wheel guard bolts with nuts (7) | " | .10 |
| 31 P—Pitman adj. screws (2) | " | .10 |
| 31 Q—Leaf support sockets (2) for upright machines | " | 10 |
| 31 R—Caster rolls (4) and rivets (4) | " | 10 |
| 31 S—Ball bearing adj. screw | " | .10 |
| 31 T— " " complete | " | 1.50 |

## LIST OF ATTACHMENTS AND ACCESSORIES NOT ILLUSTRATED.

| | | |
|---|---|---|
| Attachment holder | Each, | $0 55 |
| Binder | " | .50 |
| Bias binder | " | .50 |
| Belt with hook | " | .20 |
| Bobbins | " | 05 |
| Combination screw-driver | " | 10 |
| Foot hemmer and feller, ⅜-inch | " | .65 |
| Gauge | " | .10 |
| Gauge screw | " | .20 |
| Hemmers, ¼ inch, ⅜-inch, ½-inch and 1-inch | " | .50 |
| Instruction book | " | .10 |
| Needles, per package, assorted sizes | " | .35 |
| Oil can, filled | " | .20 |
| Quilter | " | .10 |
| Ruffler | " | 1 25 |
| Ruffler separator blade | " | .20 |
| Shuttle | " | 1 50 |
| Tucker | " | 1 25 |
| Table rubbers, set of 4 | " | 10 |

NOTE:—Orders should state number and name of part wanted, also number of machine given in the warranty; the latter can be found stamped on the front of bed plate, under the bobbin winder.

PACIFIC HARDWARE & STEEL COMPANY

# SEWING MACHINES.

## BONITA BALL BEARING

**Special** attention is called to the following points in connection with our **Bonita Ball Bearing** Sewing Machines

Our line, as shown in the following pages is especially adapted to the requirements of the **Retail Hardware** trade, and the assortment is complete.

All machines are shipped from the factory to our store "knocked down," and set up by us in one of the best equipped assembling rooms in the United States The damage often caused by a long overland journey is thus avoided The head of every machine leaving our hands is placed upon a power table, carefully run, oiled and tested the day of entry of customer's order, and after inspection, new and perfect wood work is adjusted to the **Ball Bearing** stands The machine head is then secured to its proper fastening, papered and crated for shipment in such a manner that we are doubly assured that every machine sent out of our house reaches the dealer perfectly adjusted and fully equal to any and all requirements of a first-class **Family** Sewing Machine.

Every **Bonita Ball Bearing** Sewing Machine is guaranteed fully as per Warranty below

## COPY OF CERTIFICATE OF WARRANTY.

### *CERTIFICATE OF WARRANTY.*

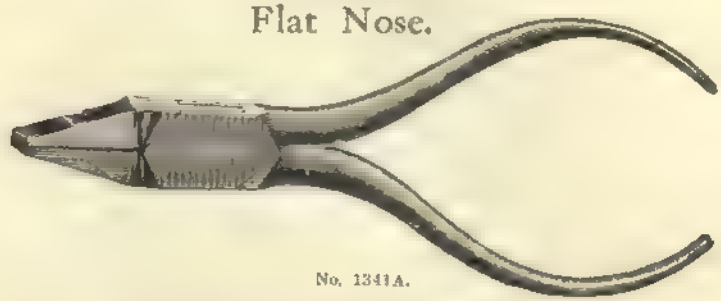
*We hereby warrant this* BONITA BALL BEARING *Sewing Machine, Numbered* _____ *if purchased of* _____ *and used for family sewing only, to endure the natural wear and tear for Ten Years, and we agree to replace within that time any defective parts of same, excepting only shuttles and needles, if presented at our office accompanied by this Warrant properly signed and sealed.*

*Pacific Hardware & Steel Co.*

*San Francisco,* _____

# Pliers.

## Flat Nose.

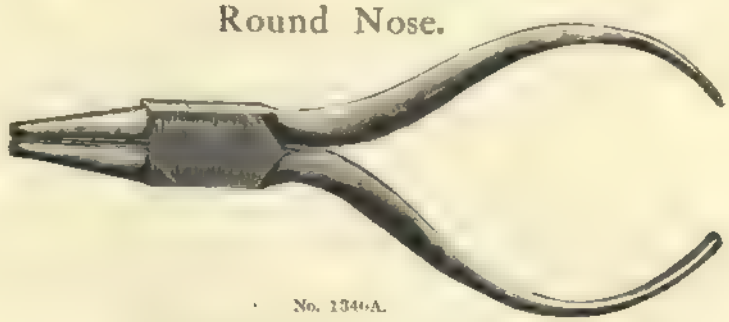


No. 1341A.

**No. 1341A—Cast Steel, Polished Jaws.**

| **Length**, inch | **3** | **4** | **5** | **6** |
|---|---|---|---|---|
| Weight per Dozen, lbs | 1½ | 2 | 3¾ | 4½ |
| Per Dozen | $2 00 | 2 00 | 2 40 | 3 00 |

## Round Nose.

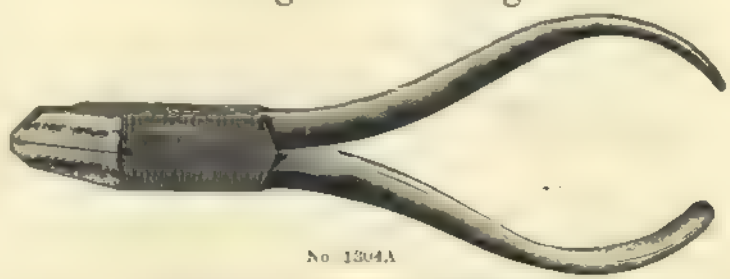


No. 1340A.

**No. 1340A—Cast Steel, Polished Jaws.**

| **Length**, inch | **3** | **4** | **5** | **6** |
|---|---|---|---|---|
| Weight per Dozen, lbs | 1½ | 2 | 3 | 4 |
| Per Dozen | $2 00 | 2 00 | 2 40 | 3 00 |

## Diagonal Cutting.



No. 1304A

**No. 1304A—Cast Steel, Polished Jaws.**

| **Length**, inch | **4** | **5** | **6** |
|---|---|---|---|
| Per Dozen | $6 05 | 8 00 | 9 55 |

## Combination.

No. 819

**No. 819**—7 in. Forged Steel, Full Polished, Weight per Dozen, 7½ lbs. . . . . Per Dozen, $17 50
**No. 819**—8 " " " " " " " " 9 " " " " 19 50

All Above Half Dozen in a Box.

# Pliers.

## Bernard Flat Nose.

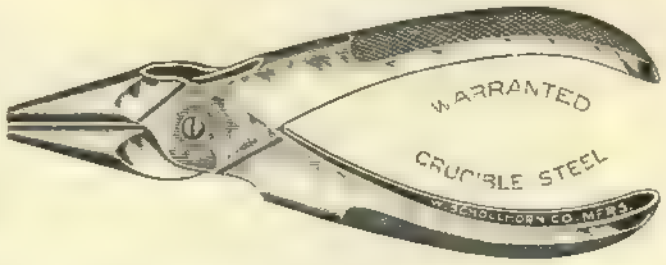
No. 11.

**No. 11—Open Throat, Parallel Jaws, Full Nickel Plated.**

| **Length,** inch | **4½** | **5½** | **6½** |
|---|---|---|---|
| Weight per Dozen, lbs | 3 | 5 | 7 |
| Per Dozen | $7 00 | 9 00 | 11 00 |

Half Dozen in a Box.

## Bernard Round Nose.



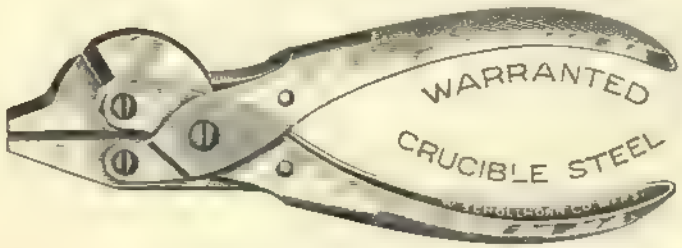

No. 13.

**No. 13—Open Throat, Parallel Jaws, Full Nickel Plated.**

| **Length,** inch | **4½** | **5½** | **6½** |
|---|---|---|---|
| Weight per Dozen, lbs. | 3 | 5 | 7 |
| Per Dozen | $7 00 | 9 00 | 11 00 |

Half Dozen in a Box.

## Bernard Cutting Pliers.



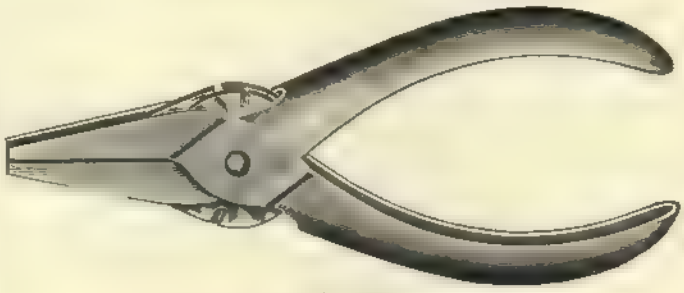

No. 15.

**No. 15—Open Throat, Parallel Jaws, Full Nickel Plated.**

| **Length,** inch | **4½** | **5½** | **6½** |
|---|---|---|---|
| Weight per Dozen, lbs. | 3½ | 5½ | 7½ |
| Per Dozen | $11 50 | 14 50 | 17 50 |

Half Dozen in a Box.

## Lodi Cutting Pliers.



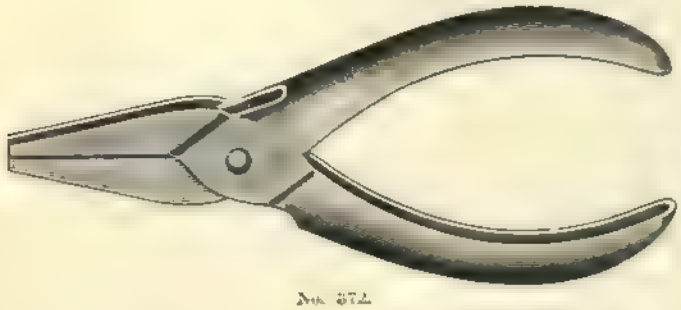
No. 396.

**No. 396—All Steel, Bright Finish.**

| **Length,** inch | **5** | **6** |
|---|---|---|
| Weight per Dozen, lbs. | 3 | 5 |
| Per Dozen | $2 00 | 3 00 |

One Dozen in a Box.

## Lodi Flat Nose.



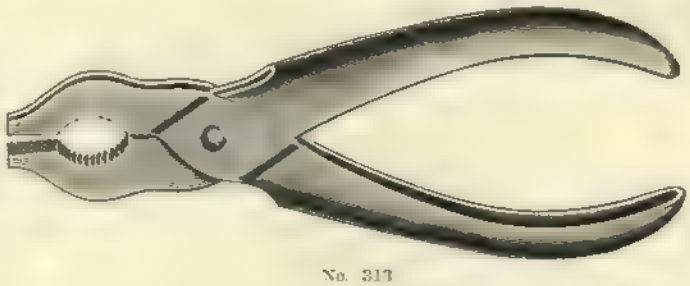
No. 372.

**No. 372—All Steel, Bright Finish.**

| **Length,** inch | **4** | **5** | **6** |
|---|---|---|---|
| Weight per Dozen, lbs | 2½ | 3 | 4 |
| Per Dozen | $1 00 | 1 50 | 2 00 |

One Dozen in a Box.

## Lodi Gas.



No. 313.

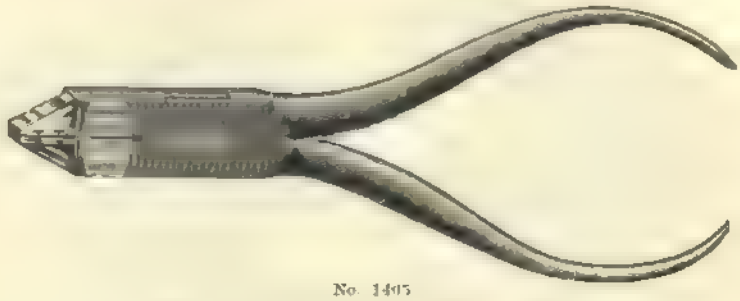
**No. 313—All Steel, Bright Finish.**

| **Length,** inch | **6** |
|---|---|
| Weight per Dozen, lbs | 4 |
| Per Dozen | $2 00 |

One Dozen in a Box.

# Pliers.

## Side Cutting.

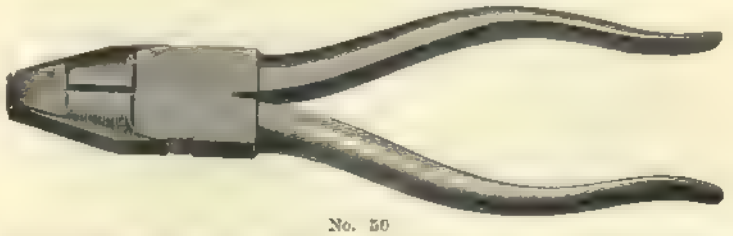


No. 1495

**No. 1495—Cast Steel, Polished Jaws.**

| **Length**, inch | **4½** | **5** | **6** | **7** | **8** |
|---|---|---|---|---|---|
| Weight per Dozen, lbs | 2 | 3½ | 5½ | 7½ | 9½ |
| Per Dozen | $6 20 | 6 20 | 7 50 | 9 00 | 11 00 |

## Standard, Side Cutting.



No. 50

No. 50—Black, Polished Jaws, forged from special tool steel and carefully tested. Warranted to be the best.

| **Length**, inch | **5** | **6** | **7** | **8** |
|---|---|---|---|---|
| Weight per Dozen, lbs | 3½ | 6 | 7½ | 11 |
| Per Dozen | $9 00 | 12 15 | 15 60 | 18 85 |

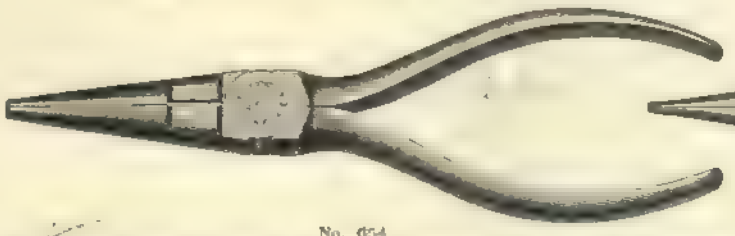
## Side Cutting and Splicing.

No. 350

Made from Special Brand Steel. Toughness and Hardness for Cutting Edge Unequaled.

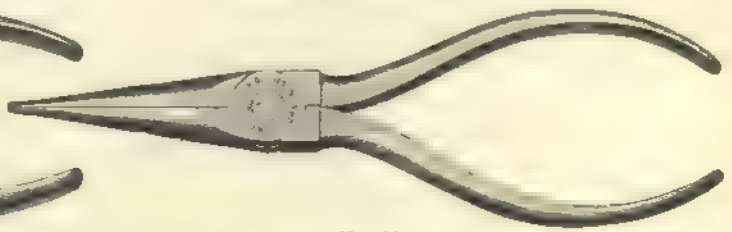
**No. 350**—8 in., Black, Polished Nose, Weight per Dozen, 11 lbs. . . Per Dozen, $21 30

## Long Chain Nose, Side Cutting.



No. 654.

## Long Chain Nose.



No. 33

**No. 654**—5½ in., Black, Polished Jaws with Cutter, Weight per Dozen, 8 lbs . . Per Dozen, $14 95
**No. 33** " " " " " " " " " " " " 8 " . . . . . " " 10 05

All Above Half Dozen in a Box.

# Pliers.

## Columbia Button.

**The Columbia is Made from Best Quality Tool Steel and is Fully Warranted.**

| | | | | |
|---|---|---|---|---|
| **Length, inch** | **4½** | **6** | **8** | **10** |
| Weight per Dozen, lbs | 4 | 5½ | 9 | 13 |
| Per Dozen | $10 00 | 12 00 | 15 00 | 20 00 |

## American Button.

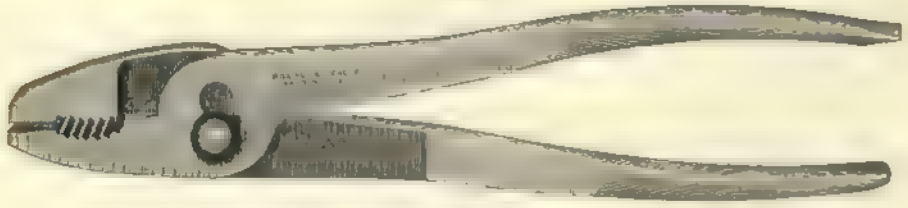
No. 150.

**No. 150—Made from Sheet Steel Well Tempered and are Fully Warranted**

| | | | |
|---|---|---|---|
| **Length, inch** | **6** | **8** | **10** |
| Weight per Dozen | 4½ | 7½ | 11 |
| Per Dozen | $12 00 | 15 00 | 20 00 |

## Billings' and Spencer's Improved Combination.

6 Inch



10 Inch.

Gas Pliers, Wire Cutters, Wrench and Screw Driver Combined.

**Drop Forged from Best Tool Steel, and Finished First-class in Every Respect.**

**6 in.**—Nickel Plated, Takes Pipe 3/16 in. to 3/4 in.. Weight per Dozen, 6 lbs. . . . . Per Dozen, $15 00
**10 in.** " " " " 1/4 " "1¼ " " " " 12 " . . . . . " " 21 00

All Above Half Dozen in a Box

# Wire Cutter.

No. 20.

**No. 20**—Length, 3¾ in., All Steel, Black, Weight per Dozen, 2½ lbs.....Per Dozen, $3 00

# End Cutting Nippers.

No. 1493.

**No. 1493—Best Forged Steel, Superior Quality, Warranted.**

| Length, inch | 4 | 4½ | 5 | 6 |
|---|---|---|---|---|
| Per Dozen | $9 25 | 10 00 | 10 50 | 12 75 |

Above Half Dozen in a Box.

## Acme.

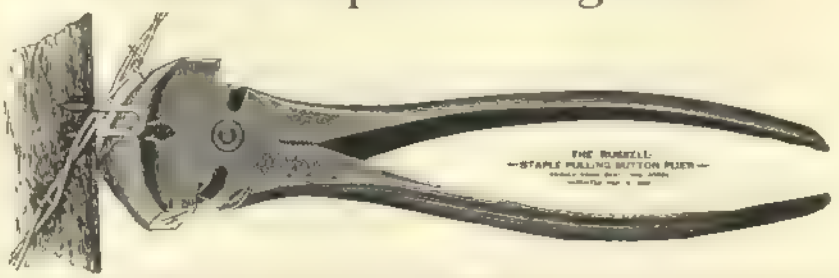
**With Interchangeable Jaws, Dovetailed into the Head.**

| Nos. | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Length, inch | 12 | 11 | 10 | 8 | 6 |
| Each | $2 25 | 2 00 | 1 75 | 1 50 | 1 25 |

**Extra Jaws.**

| Nos. | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| Per Pair | $0 50 | 0 50 | 0 50 | 0 50 | 0 50 |

# Russell Staple Pulling Plier.




Staple Plier, Combining Nail Cutter, Wire Cutter, Hammer, Pincer, Wrench and Wire Stretcher.

**No. 1900**—Black, Polished Head, Length, 10 in., Weight per Dozen, 21 lbs.....Per Dozen, $35 00

# Insulated Side Cutting Pliers.

No. 300.

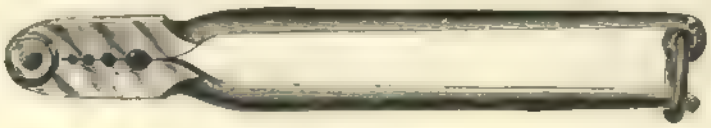
These are for Linemen, Motormen, Electricians, and others who want to cut wires heavily charged with electricity. They are of a high grade of crucible steel, forged solid. They are tested to insulate against 2,500 volts.

**No. 300—Safety Side Cutting Pliers, Box Joint. Patent Insulator.**

| | | | |
|---|---|---|---|
| **Length,** inch | 6 | 7 | 8 |
| Weight per Dozen, lbs | 5½ | 8 | 9 |
| Per Dozen | $25 00 | 33 00 | 40 00 |

Half Dozen in a Box.

# Swedish Lineman's Wire Splicing Clamps.

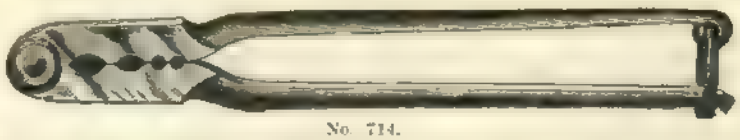


No. 715.

Best Quality, Tempered Spring Steel, with Tempered Handles and Round Edges.

**No. 715**—11 in., Full Polished, for No. 8 Wire and Smaller, B. & S. Gauge, Weight per Dozen, 16 lbs . . . . . **Per Dozen,** $33 65

Half Dozen in a Box



No. 714.

**No. 714**—11 in., Full Polished, for No. 0 Wire and Smaller, B. & S. Gauge, Weight per Dozen, 16 lbs . . . . . **Per Dozen,** $34 40

Half Dozen in a Box

# Swedish Sure Grip Climber.

No. 253.

Forged from one piece of Swedish Electro Boracic Steel, toughest metal known and with improved spur. No rivets to loosen, thereby endangering life. Fully warranted.

**No. 253**—Climber without Straps. Weight per Dozen Pairs, 50 lbs., Per Dozen Pairs, $25 00

Net Weight per Pair, 3½ lbs.

# Lineman's Wire Stretcher.

No. 266.

## Come Along or Wire Stretcher.

**No. 266**—For No. 9 Wire or Smaller, Weight per Dozen, 20 lbs. . . . Per Dozen, $9 10

Half Dozen in a Box.

# Tubular Lanterns.

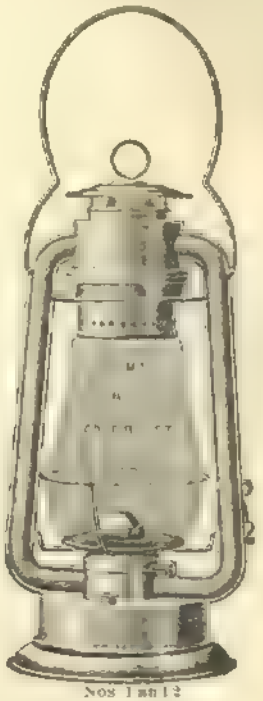
## Clipper Lift.

No. 0.

## Side Spring.

No.

## Cold Blast.



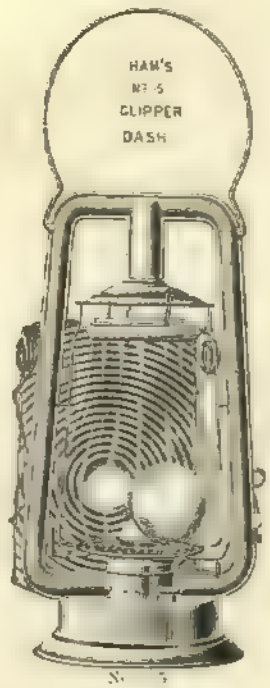
Nos. 1 and 2.

| | | |

# Lanterns.

## Tubular Dash.

### Clipper.




### Cold Blast.

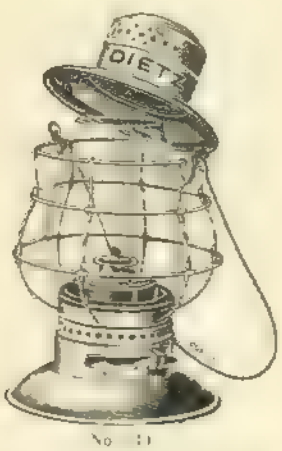
NO. 17

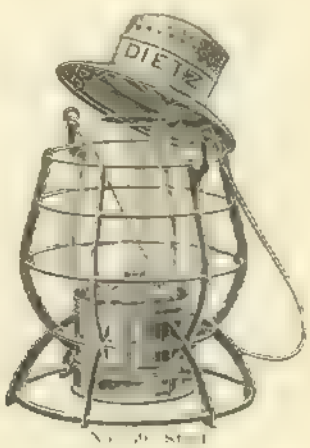
### Hood Reflector.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **No. 15**—Japanned, | No. 1 | Burner, | No. 0 | Globe, Plain, | 5/8 in. | Wick, Weight per Dozen, 38 lbs | Per Dozen, $11 00 |
| **No. 15** | " | " | 1 | " | " 0 " | Bull's Eye, 5/8 in. Wick, " " " 38 " | " " 15 50 |
| **No. 17** | " | " | 2 | " | Bull's Eye Cold Blast Globe, 1 in. Wick, Weight per Dozen, 68 lbs. | | " " 20 50 |
| **No 0** Tin | | | 1 | | No. 0 Globe, 5/8 in. Wick, Weight per Dozen, 70 lbs. | | " " 22 00 |

All Half Dozen in a Case

## Railroad.




## Oil and Candle.

**No. 39**—Tin, Double Guard, Tin Bottom, No. 39 Globe, with Ratchet Burner for Lard Oil and Convex Burner for Kerosene, Weight per Dozen, 42 lbs. Per Dozen, $11 00

**No. 39**—Brass, Double Guard, Closed Bottom, No. 39 Globe, with Ratchet Burner for Lard Oil and Convex Burner for Kerosene, Weight per Dozen, 43 lbs. Per Dozen, 36 00

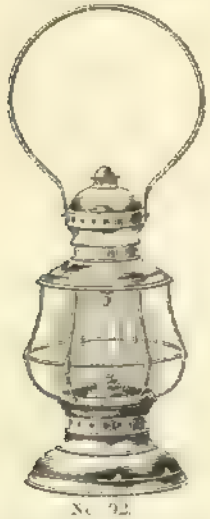
**No. 39**—Steel Clad, Double Guard of Flat Steel, No. 39 Globe, Burns Lard Oil or Railroad Signal Oil, for Rough Usage, Weight per Dozen, 47 lbs. Per Dozen, 12 50

**No. 74**—Tin, Three Burner, for Oil, Candle and Kerosene, No. 0 Globe, 5/8 in. Wick, Weight per Dozen, 35 lbs. 7 00

One Dozen in a Case

# Lanterns.

## Conductors'.



No. 92

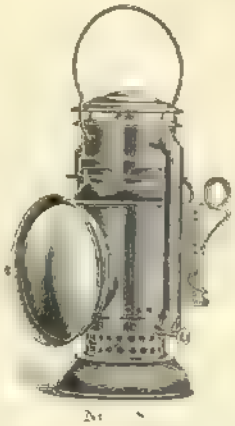
**No. 92** —Pullman, Brass, Nickel Plated, with White Globes, No. 1 Burner, ⅝ in. Wick, for Lard or Sperm Oil, Weight per Doz., 42 lbs., Per Dozen, $ 72 00

**No. 92½**—Pullman Brass, Nickel Plated, with Half Green Globe.....Per Dozen, 102 00

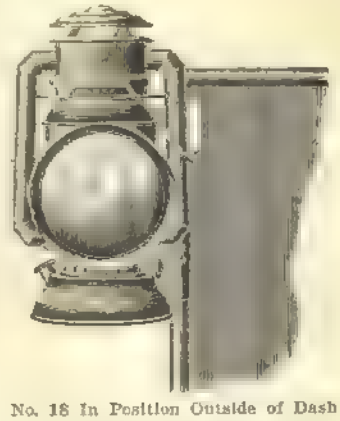
One Dozen in a Box

## Cold Blast Driving.

Burns Kerosene Only.



No.

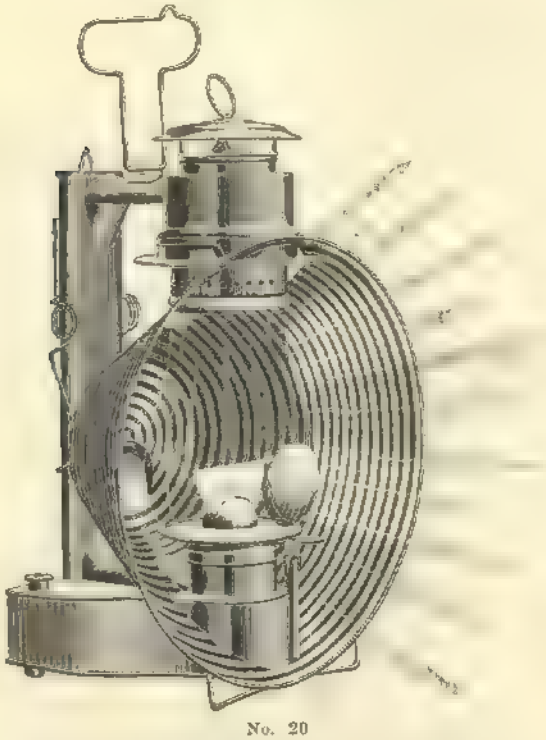


No. 18 in Position Outside of Dash

**No. 18**—Black Enameled Frame, Silvered Reflector, 4 in. Double Convex Lens, Height 9⅝ in., ½ in Kerosene Burner, Weight per Dozen, 32 lbs., with Dash Clamp.....Per Dozen, $42 00

Half Dozen in a Box.

## Search Light.



No. 20

**No. 20**—Japanned Cold Blast "Search Light," 12 in. Reflector, No. 0 Tubular Globe, No. 2 Burner, 1 in. Wick, Weight per Dozen, 100 lbs ....Per Dozen, $30 00

Is not effected by the wind or strong draughts. Suitable for barns, mills, warehouses or lawns.

Half Dozen in a Box.

## Gasoline Torch.

No. 120.

**No. 120**—Gasoline Torch . . . . . Each, $2 00

Extra Burners . . . . . " 1 25

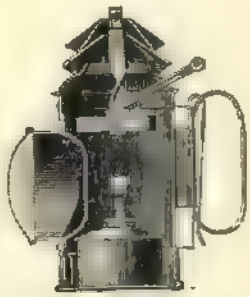
" Valves..... 35

Gives a light equal to eight or ten gas lights, at a cost of less than a cent an hour. This torch will work in a wind that would quickly extinguish other lights, and is therefore suitable for outdoor use. Weight each. 4½ lbs.

# Police Lanterns.

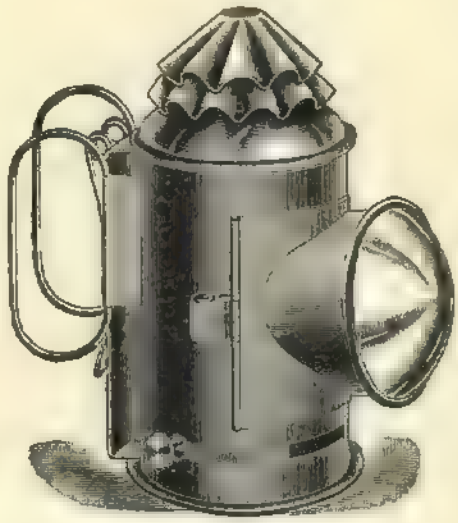
## Flash Light.

Japanned.



Patent flash attachment. Can be held and operated with one hand.

## Brass.



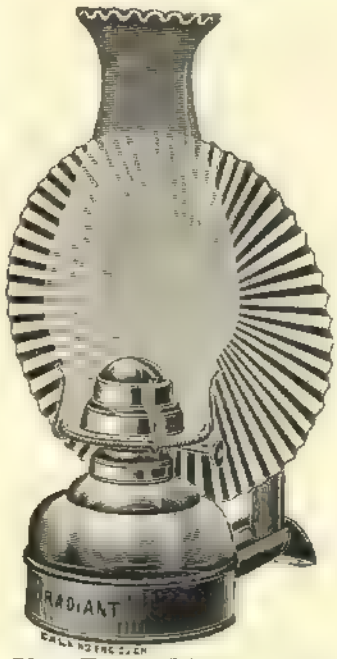
No. 200.

**No.** 1—2¾ in., Tin, Japanned, Lard Oil Burner, Weight per Dozen, 18 lbs.....Per Dozen, $ 6 00
**No.** 2—3 " " " " " " " " " 19 " ..... " " 7 50
**No. 200**—3 " Brass, " " " " " " 20 " ..... " " 42 00

Packed as Ordered.

# Side or Kitchen Lamps.

## Radiant.

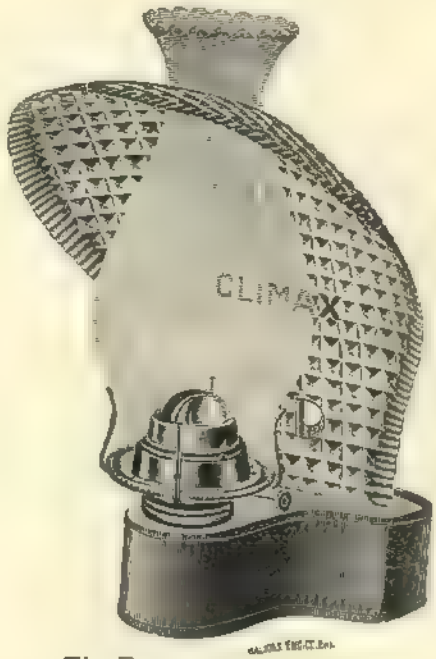



Glass Fount, Tin Reflector.

**Radiant**—No. 2 Sun Burner and Chimney, 1 in Wick, Wt. per Doz., 30 lbs., Per Dozen, $9 00

One Dozen in a Case.

## Climax.



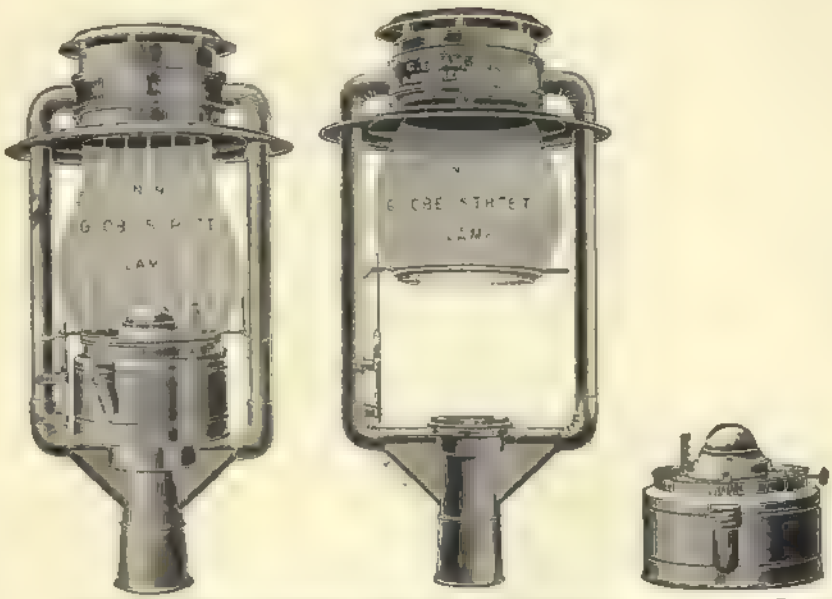

Tin Fount and Reflector.

**Climax**—No. 2 Sun Burner and Chimney, 1 in. Wick, Wt. per Doz., 28 lbs , Per Dozen, $7 50

One Dozen in a Case.

# Lamps.

## Globe Street.



Improved Globe Tubular Street Lamp. Bottom Lift, Automatic Extinguisher.

**No. 9**—Street Lamp, Height 26 in., No. 3 Burner, No. 9 Globe, 1½ in. Wick.....Each, $6 00

One in a Case. Weight 29 lbs.

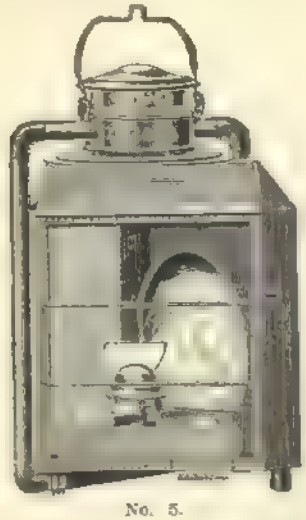
## Globe Hanging.

Improved Globe Tubular Hanging Lamp, Bottom Lift, Automatic Extinguisher.

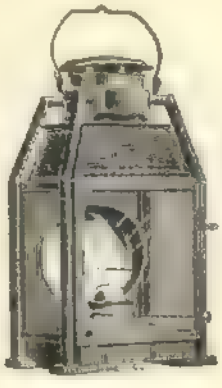
**No. 9**—Hanging Lamp, Height 20 in., No. 3 Burner, No. 9 Globe, 1½ in. Wick.....Each, $6 00

One in a Case. Weight 27 lbs.

## Triangular Tubular.



No. 5.



No. 6.

## Square Tubular.

No Chimney.

No. 7.

**No. 5**—Triangular Tubular Lamp, No Chimney, Outside Wick Regulator, Patent Wind Break, Silvered Glass Reflector, Diameter 10 in., No. 3 Burner, 1½ in. Wick, Height 21 in., Weight Each, 30 lbs.....Each, $8 50

**No. 6**—Square Tubular Lamp, No Chimney, Outside Wick Regulator, Patent Wind Break, 6 in. Silver Glass Reflector, Height 16¾ in., Width 8¾ in., Depth 7½ in., No. 2 Burner, 1 in. Wick, Weight Each, 13½ lbs.....Each, 5 50

**No. 7**—Square Tubular Lamp, No Chimney, Outside Wick Regulator, Patent Wind Break, 8 in. Silver Glass Reflector, Height 22½ in., Width 11¼ in., Depth 10½ in., No. 3 Burner, 1½ in. Wick, Weight Each, 23 lbs.....Each, 6 50

One in a Box.

# Lamps.

## Triangular Station.

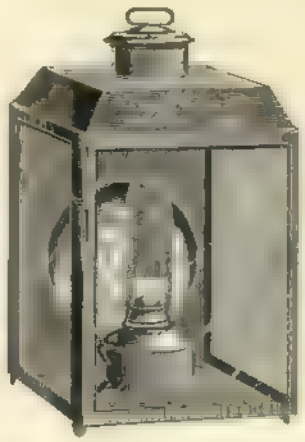
Nos. 2 and 3.

### Triangular Station.

**No. 2**—Japanned Blue, No. 2 Burner, 1 in. Wick, 8 in. Silvered Glass Reflector, Height 19¾ in., Takes Glasses 9¾×11 in., Weight Each Net, 6 lbs., Gross Weight 19 lbs.....Each, $4 00

**No. 3**—Japanned Blue, No. 2 Burner, 1 in. Wick, 10 in. Silvered Glass Reflector, Height 15¼ in., Takes Glasses 11⅞×13¾ in., Weight Each Net, 6½ lbs., Gross Weight, 22 lbs.....Each, 5 00

## Square Station.



Nos. 1 to 3.

### Square Station.

**No. 1** Japanned Blue, No. 1 Burner, ⅝ in. Wick, 7 in. Silvered Glass Reflector, Height 13½ in., Width 8½ in., Depth 7½ in., Weight Each Net, 4 lbs., Gross Weight 12 lbs.....Each, $3 00

**No. 2** Japanned Blue, No. 2 Burner, 1 in. Wick, 8 in. Silvered Glass Reflector, Height 17½ in., Width 12 in., Depth 10 in., Weight Each Net, 6 lbs., Gross Weight, 15 lbs.....Each, 4 00

**No. 3** Japanned Blue, No. 2 Burner, 1 in. Wick, 10 in. Silvered Glass Reflector, Height 21 in., Width 15½ in., Depth 11 in., Weight Each Net, 8 lbs., Gross Weight, 20 lbs.....Each, 5 00

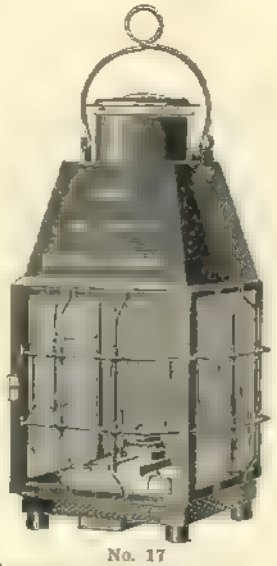
### Square Station, Guarded.

**No. 1**—With Heavy Wire Guards, Description as No. 1 Station Lamp.....Each, $4 00

**No. 2** " " " " " " 2 " " .....Each, 5 00

All Above One in a Case.

## Tubular Square Government.



No. 17

### For Government Stations, Mines, etc.

**No. 17** Heavy Wire Guards, Height 22½ in., Width 11¼ in., Depth 10½ in., No. 3 Burner, 1¼ in. Wick, 8 in. Silvered Glass Reflector, Weight Each Net, 8½ lbs., Gross Weight, 23½ lbs.....Each, $7 50

Will not smoke or blow out in the strongest winds. Wick regulated from the outside.

One in a Case.

## Motor Headlight.

No. 142.

### For Cable, Electric or Motor Cars.

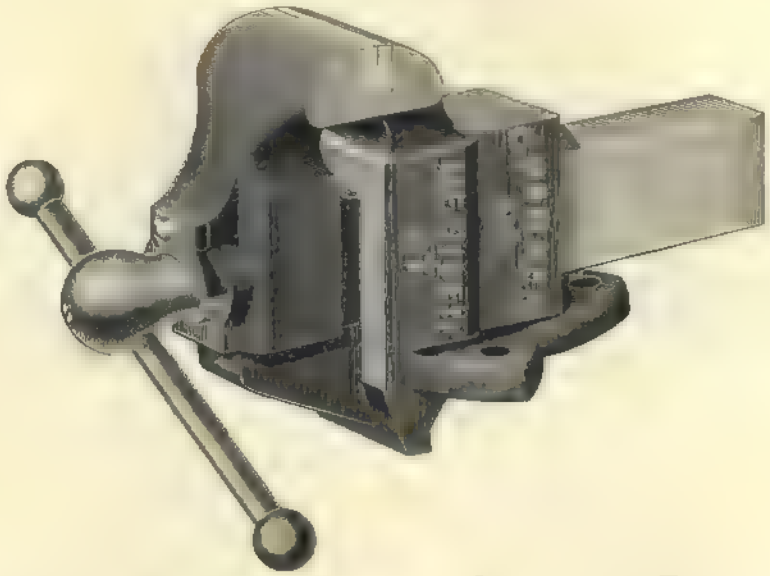
**No. 142** 10 in. Square Motor Headlight with Dashboard Attachment Case 21¾ in. High, 12 in. Wide, 5½ in. Deep, 10 in. Copper Silver Plated Reflector. Moehring Circular Wick 5 in. Long. Weight Each Net, 16 lbs., Gross Weight, 32 lbs.....Each, $13 00

Will not blow out in high winds.

One in a Case.

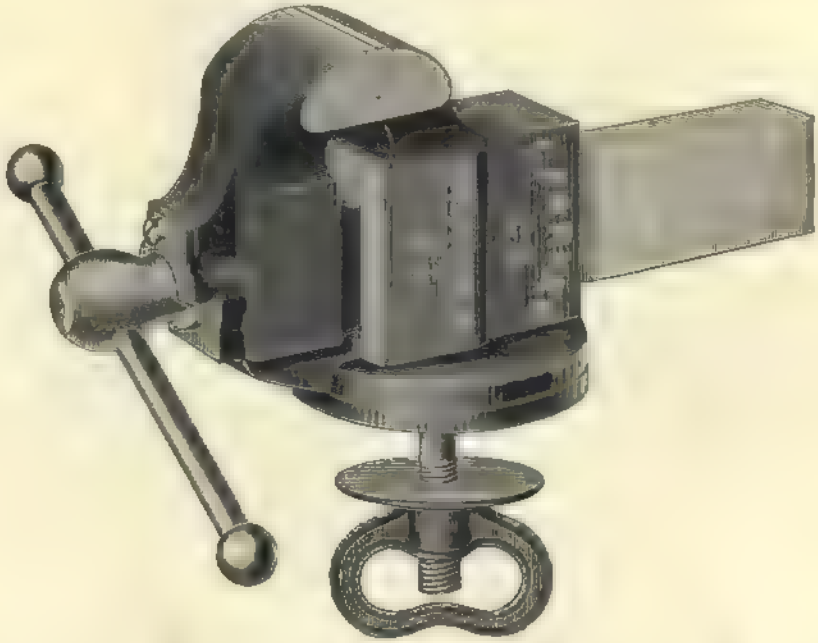
# Parker's Parallel Vises.

## Stationary Bottom.



| Nos | B | C | D | E | F | G |
|---|---|---|---|---|---|---|
| Width of Jaws, inch | 3⅝ | 4⅛ | 4⅝ | 5 | 5½ | 6 |
| Opens, inch | 5 | 5½ | 6½ | 7 | 8½ | 9½ |
| Weight Each Net, lbs. | 28 | 46 | 60 | 74 | 100 | 135 |
| Each | $7 00 | 8 50 | 10 00 | 13 00 | 18 50 | 25 00 |

## Swivel Bottom.

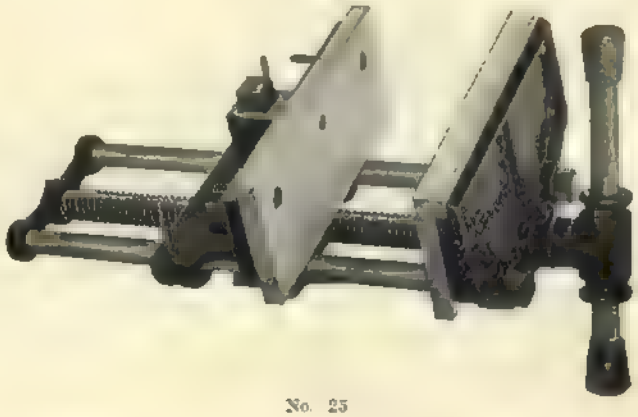


| Nos | BB | CC | DD | EE | FF | GG |
|---|---|---|---|---|---|---|
| Width of Jaws, inch. | 3⅝ | 4⅛ | 4⅝ | 5 | 5½ | 6 |
| Opens, inch | 5 | 5½ | 6½ | 7 | 8½ | 9½ |
| Weight Each Net, lbs. | 37 | 52½ | 66 | 86 | 115 | 156 |
| Each | $8 75 | 10 50 | 12 50 | 16 00 | 22 00 | 30 00 |

# Tole's Rapid-Acting Vises.

## For Wood-Workers.

No. 20.

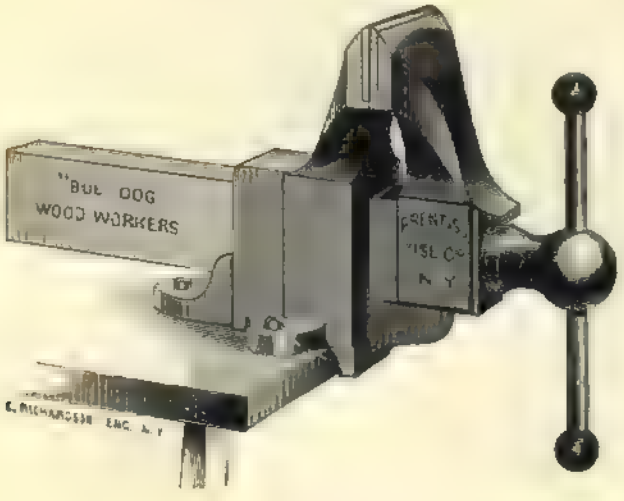


No. 25

**No. 20**—Length of Jaws 10 in., Depth 4 in., Jaws Open 12 in., Weight Each Net, 36 lbs. . . . . Each, $7 50
**No. 25** " " 10 " " 4 " " " 12 " " " " 38 " with Brass Bench Stop 1 in. Square in Back Jaw . . . . . Each, 8 00

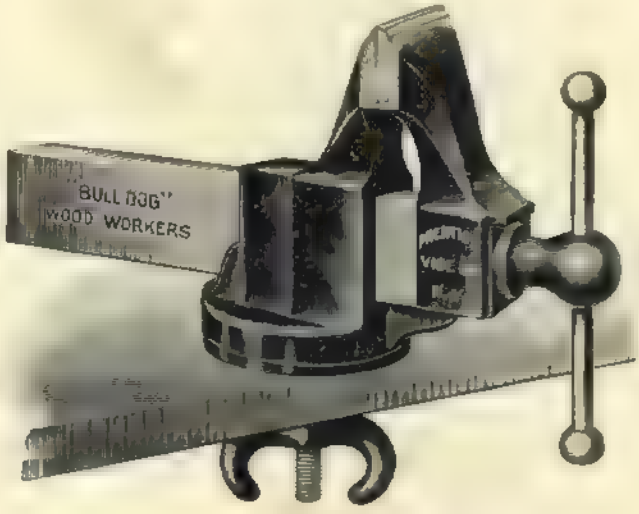
# Wood-Workers' "Bull Dog" Vises.

## Stationary Bottom.




No. 59.

## Swivel Bottom.

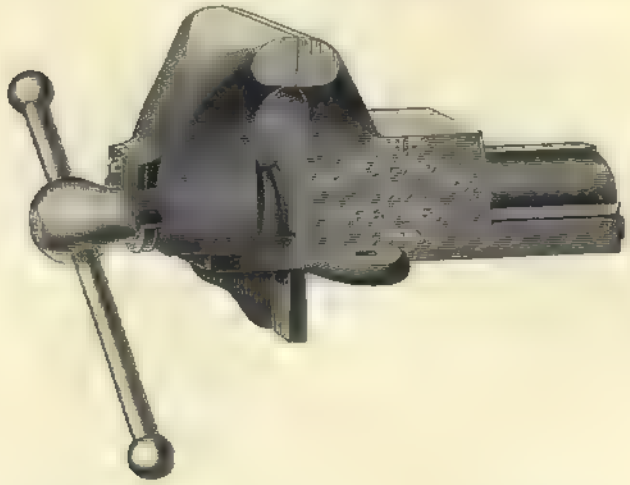



No 99.

For Carriage and Wagon Makers, Pattern Makers and Wood Workers Generally.

**No. 59**—Width of Jaw 4¼ in., Opens 9 in., Weight Each Net, 48 lbs. . . . . Each, $ 9 50
**No. 99** " " 4¼ " " 9 " " " " " 58 " . . . . . " 11 50

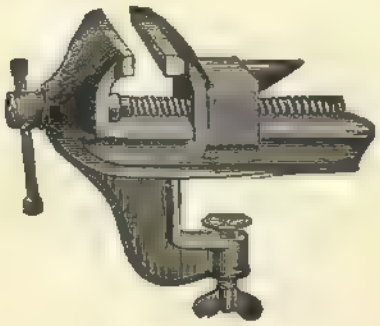
# Parker's Oval Slide Vise.



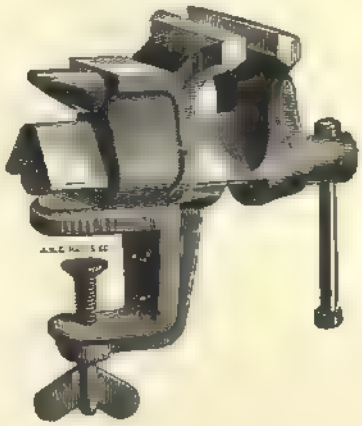
| Nos | 30 | 31 | 33 | 34 | 35 |
|---|---|---|---|---|---|
| Width of Jaws, inch | 2⅝ | 3 | 3½ | 4 | 4¾ |
| Weight Each Net, lbs. | 8½ | 13 | 22 | 28 | 35 |
| Each | $2 50 | 3 00 | 4 75 | 6 50 | 9 50 |

# Bench Vises.

Bonney's.



Champion.



## Bonney's.

| | | |
|---|---|---|
| **No. 1** --1½ in. Iron Jaws, with Clamp, Weight per Dozen, 18 lbs | Per Dozen, | $3 75 |
| **No. 1½**—1¾ " " " " " " " " 22 " | " " | 5 00 |
| **No 2** —2 " " " " " " " " 29 " | " " | 6 50 |
| **No. 2½**—2 " Steel " " " " " " 36 " | " " | 9 75 |

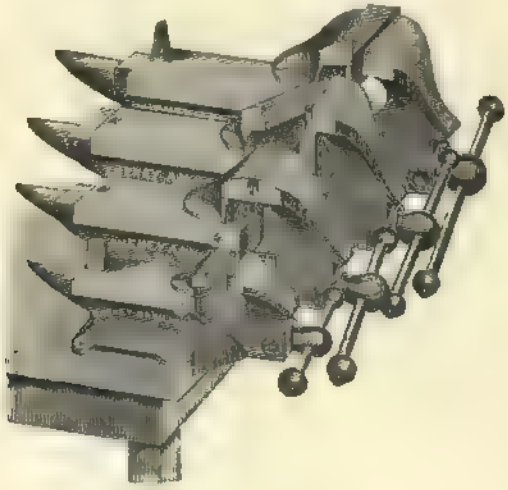
## Champion.

| | | |
|---|---|---|
| **No. 116**—2 in Steel Jaw, with Clamp, Weight per Dozen, 36 lbs | Per Dozen, | $15 00 |
| **No. 117**—2 " " Swivel Jaw, " " " " " 40 " | " " | 21 00 |
| **No. 119**—2½ " " Jaw, " " " " " 55 " | " " | 24 00 |
| **No. 120**—2½ " " Swivel Jaw, " " " " " 60 " | " " | 30 00 |
| **No. 123**—3 " " " " " " " " " 110 " | " " | 36 00 |

All Above Packed as Ordered.

# Cheney's Combination Anvil and Vise.

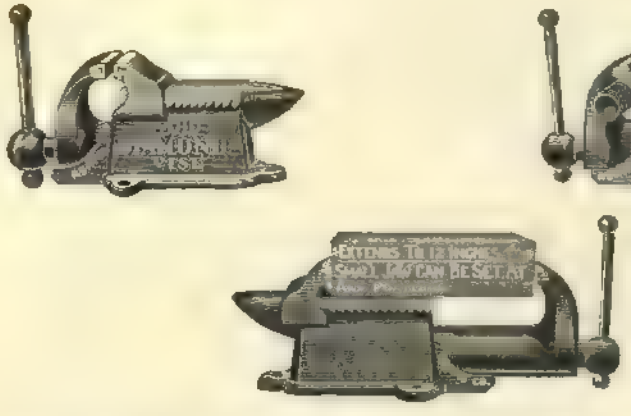
## With Adjustable Jaw.

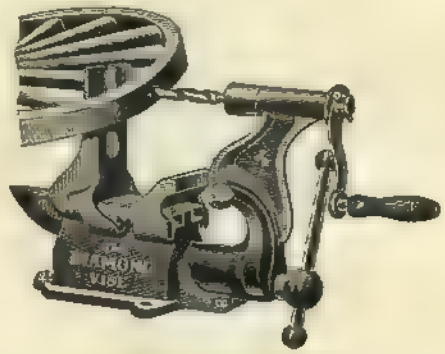


| Nos | 10 | 20 | 30 | 40 |
|---|---|---|---|---|
| Face of Anvil, inch | 4½×2 | 6½×3 | 8×3½ | 8½×4 |
| Width of Jaws, inch | 2½ | 3½ | 4 | 4½ |
| Opens, inch | 3 | 4 | 5 | 6 |
| Weight Each Net, lbs | 9 | 25 | 35 | 50 |
| Each | $3 50 | 4 50 | 5 50 | 6 50 |

All Above Packed as Ordered

# Diamond Combined Anvil and Vise.





With Drilling Attachment

**Anvil and Vise Combined** -4 in Jaws. Anvil Face, 3·7 in., Weight Each. 44 lbs .... . .Each. $6 00
**Anvil and Vise Combined**– With Drilling Attachment, Weight Complete, 60 lbs .. .. ... ..... " 9 00

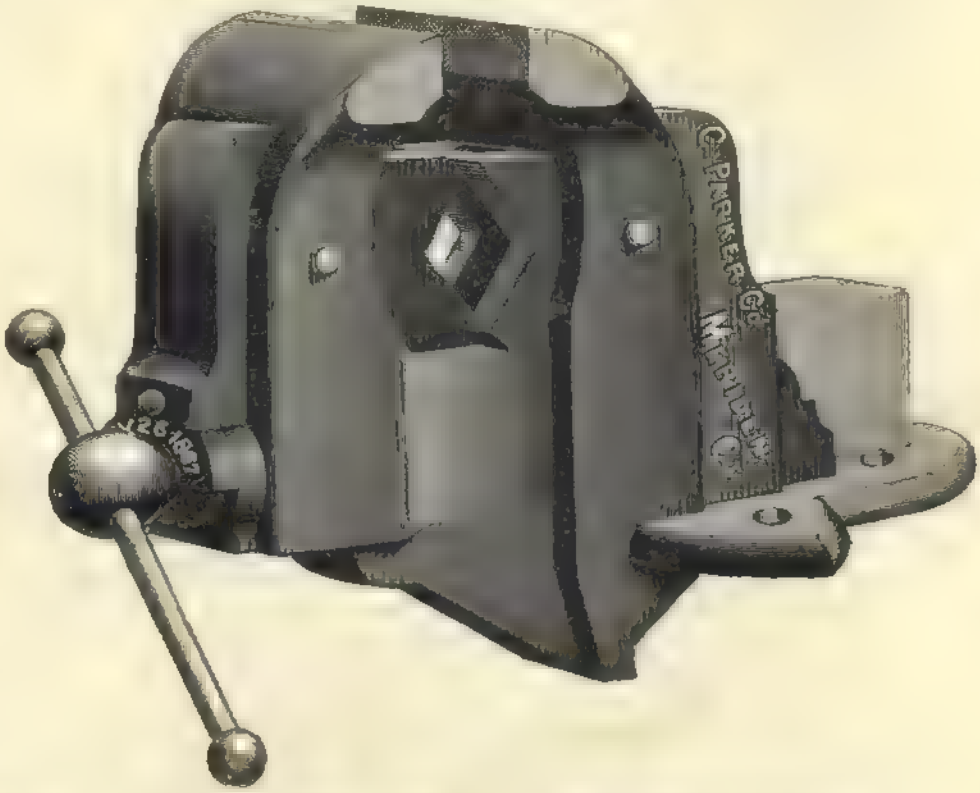
One in a Case

# Parker's Patent Combination Pipe Vises.

## Swivel Bottom.

**No. 87**—Holds Pipe 2 in. and Under, Width of Jaws, $3\frac{5}{8}$ in. Weight Each Net, 41 lbs . . . Each, $16 00
**No. 88** " " 3 " " " " $4\frac{1}{8}$ " " " " 59 " . . . . . " 20 00

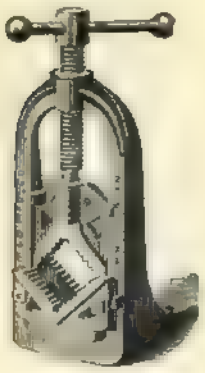
## Stationary Bottom.




**No. 88½**—Holds Pipe 4 in. and Under, Width of Jaws, $4\frac{3}{4}$ in., Weight Each Net, 94 lbs . . Each, $28 00
**No. 89½** " " 6 " " " " $5\frac{5}{8}$ " " " " 141 " . . . . . " 35 00

# Pipe Vises.

## All Steel.



No. 0

**No. 0**—Holds ⅛ to 2 in. Pipe, Weight Each, 7 lbs.....Each, $3 50

## Shepard.

Nos. 201 and 202

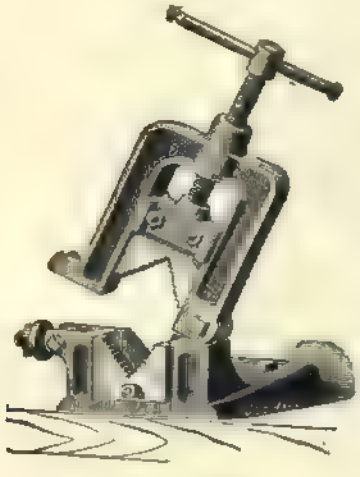
This Vise is instantly adjusted for any size pipe within its range by a simple movement of Lever.

**No. 201**—Holds ⅛ to 2½ in. Pipe, Weight Each 18 lbs.....Each, $ 6 50

**No. 202**—Hold ¼ to 4 in. Pipe, Weight Each 35 lbs.....Each, 12 00

## Open Hinged.

### Malleable.

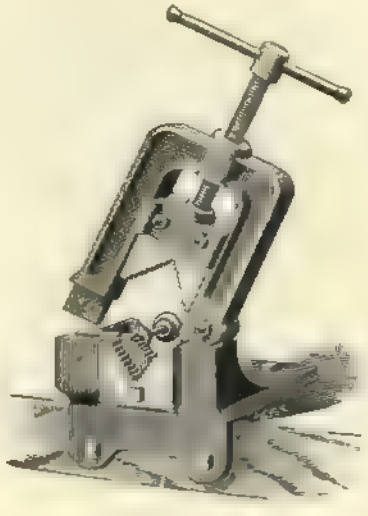


Nos. 5 and 10

**Steel Screw and Lever, Milled and Tempered Steel Jaws.**

**No. 5**—Holds ⅛ to 2½ in. Pipe, Weight Each, 30 lbs.....Each, $10 00

**No. 10**—Holds ¼ to 4 in. Pipe, Weight Each, 58 lbs.....Each, 18 00



Nos. 15 and 25

**Steel Screw and Lever, Milled and Tempered Steel Jaws**

**No. 15**—Holds ⅛ to 3 in. Pipe, Weight Each, 25 lbs.....Each, $12 00

**No. 25**—Holds ½ to 6 in. Pipe, Weight Each, 80 lbs.....Each, 32 00

# PHOENIX HORSE SHOES.

EXTRA LIGHT. FRONT.

## EXTRA LIGHT. FRONT.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 0 | 10 | 160 | 4 | 22 | 72 |
| 1 | 13 | 123 | 5 | 25½ | 64 |
| 2 | 15½ | 103 | 6 | 30 | 53 |
| 3 | 18½ | 86 | ... | ... | ... |

EXTRA LIGHT. HIND.

## EXTRA LIGHT. HIND.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 0 | 8 | 200 | 4 | 14½ | 82 |
| 1 | 10½ | 152 | 5 | 24 | 70 |
| 2 | 13 | 123 | 6 | 27 | 59 |
| 3 | 16 | 100 | ... | ... | ... |

LIGHT. FRONT.

## LIGHT. FRONT.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 0 | 12 | 133 | 4 | 25 | 64 |
| 1 | 14 | 114 | 5 | 30 | 52 |
| 2 | 17 | 94 | 6 | 36 | 44 |
| 3 | 21 | 76 | ... | ... | ... |

LIGHT. HIND

## LIGHT. HIND

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 0 | 10 | 190 | 4 | 22 | 73 |
| 1 | 12 | 133 | 5 | 27 | 59 |
| 2 | 14 | 114 | 6 | 30 | 51 |
| 3 | 18 | 88 | ... | ... | ... |

MEDIUM. FRONT.

## MEDIUM. FRONT.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 1 | 17 | 94 | 5 | 35 | 46 |
| 2 | 20 | 80 | 6 | 42 | 38 |
| 3 | 25 | 64 | 7 | 49 | 33 |
| 4 | 29 | 55 | 8 | 56 | 28 |

MEDIUM. HIND

## MEDIUM. HIND.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 1 | 14 | 114 | 5 | 29 | 55 |
| 2 | 16 | 100 | 6 | 34 | 47 |
| 3 | 20 | 80 | 7 | 38 | 42 |
| 4 | 24 | 66 | 8 | 45 | 35 |

One hundred pounds in keg.

# PHOENIX HORSE SHOES.

HEAVY. FRONT.

## HEAVY. FRONT.

| Nos. | Weight of Shoe Ounce | Average Number in Keg | Nos. | Weight of Shoe Ounce | Average Number in Keg |
|---|---|---|---|---|---|
| 1 | 19 | 84 | 4 | 33 | 48 |
| 2 | 23 | 69 | 5 | 39 | 41 |
| 3 | 27 | 59 | 6 | 46 | 34 |

## HEAVY. HIND.

| Nos. | Weight of Shoe Ounce | Average Number in Keg | Nos. | Weight of Shoe, Ounce | Average Number in Keg |
|---|---|---|---|---|---|
| 1 | 15 | 106 | 4 | 27 | 58 |
| 2 | 19 | 88 | 5 | 32 | 50 |
| 3 | 23 | 70 | 6 | 37 | 42 |

HEAVY. HIND

E. L. STEEL. FRONT.

## ROADSTER OR E. L. STEEL. FRONT.

| Nos. | Weight of Shoe Ounce | Average Number in Keg |
|---|---|---|
| 1 | 13 | 123 |
| 2 | 15½ | 103 |
| 3 | 18½ | 86 |
| 4 | 22 | 72 |

## ROADSTER OR E. L. STEEL. HIND.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|
| 1 | 10½ | 152 |
| 2 | 13 | 123 |
| 3 | 16 | 100 |
| 4 | 19½ | 82 |

E. L. STEEL. HIND.

E. E. L. STEEL. FRONT

## E. E. L. STEEL. FRONT.

| Nos. | Weight of Shoe. Ounce | Average Number in Keg | Nos. | Weight of Shoe Ounce | Average Number in Keg |
|---|---|---|---|---|---|
| 0 | 10 | 160 | 3 | 17 | 94 |
| 1 | 12 | 133 | 4 | 20 | 80 |
| 2 | 14 | 114 | | | |

## E. E. L. STEEL. HIND.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce | Average Number in Keg |
|---|---|---|---|---|---|
| 0 | 8 | 200 | 3 | 12 | 133 |
| 1 | 9 | 177 | 4 | 15 | 106 |
| 2 | 10 | 160 | | | |

One hundred pounds in keg.

E. E. L. STEEL. HIND

PACIFIC HARDWARE & STEEL COMPANY

# PHOENIX HORSE SHOES.

COUNTERSUNK. FRONT.

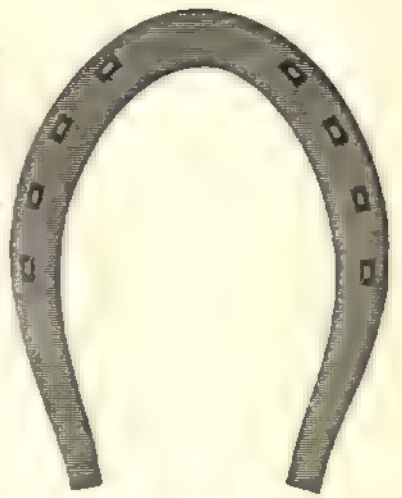
## COUNTERSUNK. FRONT.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 0 | 8 | 200 | 3 | 15 | 106 |
| 1 | 10 | 160 | 4 | 18 | 88 |
| 2 | 12 | 133 | ... | ... | ..... |

## COUNTERSUNK HIND.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 0 | [illegible] | [illegible] | 3 | 11 | 145 |
| 1 | [illegible] | 200 | 4 | 14 | [illegible] |
| 2 | [illegible] | 177 | | | |

COUNTERSUNK. HIND.



SNOW. FRONT.

## SNOW. FRONT.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 1 | 12 | 133 | 4 | 22 | 73 |
| 2 | 14 | 114 | 5 | 25 | 64 |
| 3 | 18 | 90 | 6 | 28 | 57 |

## SNOW. HIND.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 1 | 10 | 160 | 4 | 19 | 85 |
| 2 | 12 | 133 | 5 | 22 | 73 |
| 3 | 15 | 107 | 6 | 26 | 62 |

SNOW. HIND.

PRAIRIE, PLAIN.

## PRAIRIE, PLAIN.

Nail Holes Pritcheled. Heels Plain. Not Turned Up.

The inside bevel prevents pulling off in the mud; also slipping.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 00 | 8 | 200 | 2 | 13 | 123 |
| 0 | 9 | 177 | 3 | 15 | 106 |
| 1 | 11 | 145 | | | |

PRAIRIE. CALKED

## PRAIRIE, CALKED.

Calked and Pritcheled, Ready for Nailing on Without Heating.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 00 | 8 | 200 | 2 | 13 | 123 |
| 0 | 9 | 177 | 3 | 15 | 106 |
| 1 | 11 | 145 | ... | | |

One hundred pounds in keg.

# PHOENIX MULE AND JACK SHOES.

MULE.

## MULE.

| Nos. | Weight of Shoe, Ounce | Average Number in Keg | Nos | Weight of Shoe Ounce | Average Number in Keg |
|---|---|---|---|---|---|
| 00 | 8 | 200 | 3 | 18 | 89 |
| 0 | 9 | 180 | 4 | 22 | 73 |
| 1 | 11½ | 139 | 5 | 27 | 60 |
| 2 | 15 | 107 | 6 | 32 | 50 |

## JACK.

| Weight of Shoe. Ounce | Average Number in Keg |
|---|---|
| 11½ | 246 |

JACK

# BURDEN HORSE SHOES.

EXTRA LIGHT. FRONT.

## EXTRA LIGHT. FRONT.

| Nos | Weight of Shoe, Ounce | Average Number in Keg | Nos. | Weight of Shoe Ounce. | Average Number in Keg |
|---|---|---|---|---|---|
| 0 | 11 | 146 | 3 | 18 | 89 |
| 1 | 15 | 123 | 4 | 22 | 73 |
| 2 | 15 | 107 | 5 | 27 | 59 |

EXTRA LIGHT. HIND.

## EXTRA LIGHT. HIND.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 0 | 10 | 160 | 3 | 16 | 100 |
| 1 | 11 | 146 | 4 | 20 | 80 |
| 2 | 13 | 123 | 5 | 24 | 67 |

LIGHT. FRONT.

## LIGHT. FRONT.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 0 | 12 | 133 | 4 | 24 | 66 |
| 1 | 14 | 114 | 5 | 29 | 55 |
| 2 | 17 | 94 | 6 | 36 | 44 |
| 3 | 20 | 80 | ... | ... | ... |

LIGHT. HIND.

## LIGHT. HIND.

| Nos. | Weight of Shoes, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg |
|---|---|---|---|---|---|
| 0 | 10 | 160 | 4 | 24 | 73 |
| 1 | 11 | 137 | 5 | 27 | 59 |
| 2 | 14 | 114 | 6 | 32 | 50 |
| 3 | 18 | 88 | ... | ... | ... |

One hundred pounds in keg.

PACIFIC HARDWARE & STEEL COMPANY

# BURDEN HORSE AND MULE SHOES.

MEDIUM. FRONT.

## MEDIUM. FRONT.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 0 | 14 | 114 | 5 | 35 | 46 |
| 1 | 17 | 94 | 6 | 42 | 38 |
| 2 | 20 | 80 | 7 | 49 | 33 |
| 3 | 25 | 64 | 8 | 56 | 28 |
| 4 | 29 | 55 | ... | ... | ... |

## MEDIUM. HIND.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 1 | 14 | 114 | 5 | 29 | 55 |
| 2 | 16 | 100 | 6 | 34 | 47 |
| 3 | 20 | 80 | 7 | 38 | 42 |
| 4 | 24 | 66 | ... | ... | ... |

MEDIUM. HIND.

HEAVY. FRONT.

## HEAVY. FRONT.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 1 | 18 | 84 | 5 | 39 | 41 |
| 2 | 23 | 69 | 6 | 48 | 34 |
| 3 | 27 | 59 | 7 | 54 | 30 |
| 4 | 32 | 48 | 8 | 64 | 25 |

## HEAVY. HIND.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 1 | 15 | 106 | 5 | 32 | 50 |
| 2 | 18 | 88 | 6 | 37 | 43 |
| 3 | 23 | 70 | 7 | 43 | 33 |
| 4 | 27 | 59 | 8 | 60 | 27 |

HEAVY. HIND.

EASY. FRONT.

## EASY. FRONT.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 1 | 12 | 133 | 4 | 22 | 80 |
| 2 | 14 | 114 | 5 | 25 | 64 |
| 3 | 18 | 90 | ... | ... | .. |

## EASY. HIND.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 1 | 10 | 160 | 4 | 18 | 90 |
| 2 | 12 | 133 | 5 | 21 | 73 |
| 3 | 15 | 107 | ... | ... | .. |

## MULE.

| Nos. | Weight of Shoe, Ounce. | Average Number in Keg. | Nos. | Weight of Shoe, Ounce. | Average Number in Keg. |
|---|---|---|---|---|---|
| 1 | 11 | 145 | 4 | 18 | 90 |
| 2 | 13 | 123 | 5 | 22 | 73 |
| 3 | 15 | 107 | ... | ... | .. |

EASY. HIND.

One hundred pounds in keg.

PACIFIC HARDWARE & STEEL COMPANY

# HORSESHOE NAILS.

## PHOENIX

### STANDARD HEAD

### PLATE HEAD.

### LIGHT HEAD.

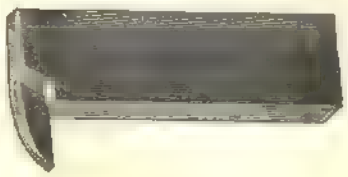
### COUNTERSUNK HEAD.

| Nos. | 3 | 4 | 4½ | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| All styles.. Per pound, | $0.75 | .35 | .30 | .22 | .19 | .18 | .17 | .16 | .16 |

### PRAIRIE.

| Nos. | 5 | 6 | 7 | 8 |
|---|---|---|---|---|
| Standard hea . . Per pound, | $0 22 | .19 | .18 | .17 |

Five pounds in carton, twenty-five pounds in box.



# TOE CALKS.

## COUNTRY PATTERN

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Number in pound | 14 | 8 | 6 | 4 | 3 | 2½ |
| Size, inch | 1½x⅝x⅜ | 1¾x⅝x⅜ | 2x⅝x½ | 2¼x¾x½ | 2½x¾x⅝ | 2¾x⅞x⅝ |
| Per poun . . . . | $0 15 | .15 | .15 | .15 | .15 | .15 |

Twenty-five pounds in box.

PACIFIC HARDWARE & STEEL COMPANY

# CHECK SPRINGS.

**No. 10**—Coppered steel wire. Length, 5 inches Weight, ½ lb. ..... Per gross, $ 6 75
**No. 12**— " " " 8 " " ¾ " " 8 10
**No. 30**—Brass spring " " 5 " " ½ " " 15.00

One-quarter gross in box

No. 96. No. 100.

# HOUSE BELLS ON CARRIAGES.

Nos. 226 and 228.

**No. 226**—Size, 2¼ inches. Polished brass bell. With spikes. Weight, 8 lbs. ..... Per dozen, $7.30
**No. 228**—Size, 3 inches. Polished brass bell With spikes. Weight, 10 lbs..... " 9.30

One-half dozen in box.

# BELL PULLS.

**No. 96**—Length, 7 inches. Cast brass. Polished and lacquered. Weight, 3¼ lbs ..... Per dozen, $7.30
**No. 100**—Length, 7½ inches. Heavy cast brass. Polished and lacquered. Weight, 5½ lbs..... 9.60

One dozen in box.

# ELECTRIC BELL OUTFITS.

No. 13.

No. 26.

**No. 13**—Consists of 2½-inch wooden box bell, Le Clanche battery, cast bronze push button, royal finish, 75 feet insulated wire and staples sufficient to put up the outfit. Weight, 7½ lbs. ..... Per set, $3 50
**No. 26**—Consists of 2½-inch iron box bell, Mesco dry battery, wooden push button, 50 feet insulated wire and staples sufficient to put up the outfit. Weight, 3½ lbs..... " 2 50
**No. 97**—2½-inch iron box bell. Weight, 1 lb. ..... Each, .50
**No. 99**—3 " " " " " 1½ lbs. ..... " .60
Mesco dry batteries. Weight, 1¼ lbs ..... " .40
Zincs for Le Clanche batteries. Weight, ¼ lb..... " .10
Insulated wire in 100-foot coils. " ¼ " ..... Per coil, 60

Nos. 13 and 26, one set complete in box

PACIFIC HARDWARE & STEEL COMPANY

# PUSH BUTTONS.

No. 1411SC.

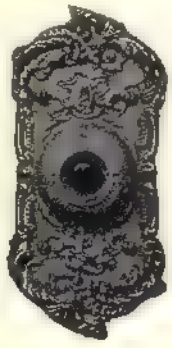
No. 1412SC.

Nos. 1413SC to BB.

Nos. 1414LB and BB.

| Nos. | Size, Inch. | DESCRIPTION. | Weight, Lbs. | Per Dozen. |
|---|---|---|---|---|
| **1411 SC** | 2¼x4¼ | Cast bronze. Sand blast antique copper finish. | 6 | $16 00 |
| **1412 SC** | 2½x5½ | " " " " " " " | 6 | 24 00 |
| **1413 SC** | 2⅝x6 | " " " " " " " | 6 | 24 00 |
| **1413 SB** | 2⅝x6 | " brass. " " brass " | 6 | 24 00 |
| **1413 BB** | 2⅝x6 | " iron. Bower barff finish | 6 | 25 00 |
| **1414 LB** | 2⅝x5⅛ | " brass. Light brass " | 5½ | 16 00 |
| **1414 BB** | 2⅝x5⅛ | " iron. Bower barff " | 5½ | 16 25 |

No. 1415SC.



No. 1416SB.

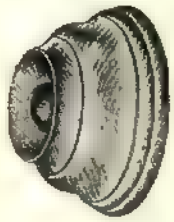
No. 1417SC.

Nos. 1418LB and BB.

| Nos. | Size, Inch. | DESCRIPTION. | Weight, Lbs. | Per Dozen. |
|---|---|---|---|---|
| **1415 SC** | 2⅛x5½ | Cast bronze. Sand blast antique copper finish. | 6 | $22 75 |
| **1416 SB** | 2⅝x5½ | " brass. " " " brass " | 5¼ | 20.00 |
| **1417 SC** | 2¼x6½ | " bronze. " " " copper " | 6 | 8.50 |
| **1418 LB** | 2¼x11¼ | " brass. Light brass finish | 12 | 41.50 |
| **1418 BB** | 2¼x11¼ | " iron. Bower barff " | 12 | 42 00 |

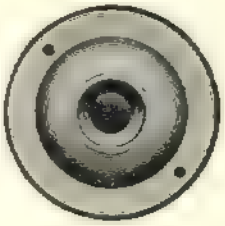
One-twelfth dozen in box, with screws.

# PUSH BUTTONS.



Nos. 100 to 300.

No. 18322R.



Nos. 18322LB to SC.

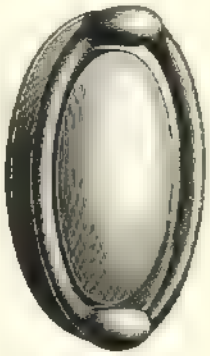
Nos. 18372LB to BB.

| Nos. | Size Inch | DESCRIPTION | | Weight, Lbs. | Per Dozen. |
|---|---|---|---|---|---|
| 100 | 2⅛ | Oak | | ¾ | $1.20 |
| 200 | 2⅛ | Ash | | ¾ | 1.20 |
| 300 | 2⅛ | Stained cherry | | ¾ | 1.20 |
| 18322 R | 2½ | Bronze metal. | Royal finish | 1⅛ | 5 00 |
| 18322 LB | 2½ | Brass " | Light brass finish | 1½ | 5 00 |
| 18322 AC | 2½ | Bronze " | Antique copper finish | 1½ | 6.00 |
| 18322 SC | 2½ | " " | Sand blast antique copper finish | 1½ | 6.50 |
| 18372 LB | 4x2⅜ | Brass " | Light brass finish | 1½ | 6.50 |
| 18372 AC | 4x2⅜ | Bronze " | Antique copper finish | 1½ | 7 00 |
| 18372 BB | 4x2⅜ | Rustless iron | Bower barff finish | 1½ | 6 00 |

Nos 100 to 300, loose, Nos 18322R to 18322SC, one-twelfth dozen; balance, one-quarter dozen in box, with screws.

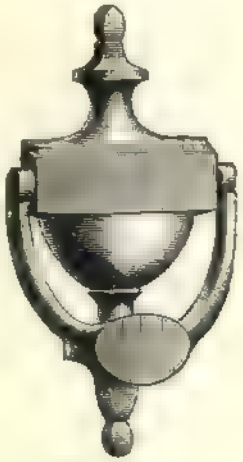
# DOOR KNOCKERS.

No 18LB.



Nos. 16LB and BB.

Nos. 24LB and BB.



No 14LB

| Nos. | Size, inch. | DESCRIPTION | | Weight, Lbs. | Each |
|---|---|---|---|---|---|
| 18 LB | 4⅛ x6¼ | Brass metal. | Light brass finish | 1½ | $5 60 |
| 16 LB | 3¼ x5¾ | " " | " " | 1½ | 7 00 |
| 16 BB | 3¼ x5¾ | Rustless iron. | Bower barff " | 1½ | 7 00 |
| 24 LB | 2 x6½ | Brass metal. | Light brass " | 1½ | 7 00 |
| 24 BB | 2 x6½ | Rustless iron. | Bower barff " | 1½ | 7 00 |
| 14 LB | 4⅛x7⅛ | Brass metal. | Light brass " | 1½ | 7 00 |

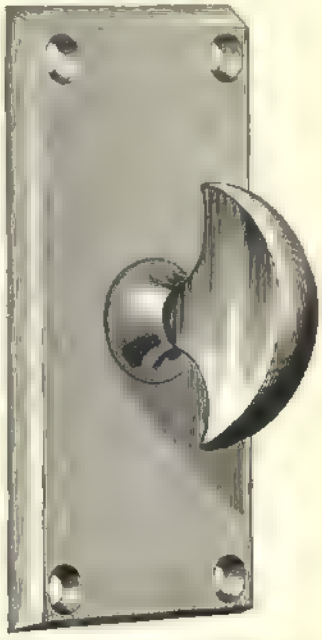
One in box, with machine screws.

# ROTARY DOOR BELLS.

Complete with Turns and Plates.

Full size cut of Turn and Plate for No. 193R

Two-thirds cut of 3-inch Bell.



Full size cut of Turn and Plate for Nos. 292AC and 202AC.

Full size cut of Turn and Plate for Nos. 393R to 1391G.

**No. 193 R**—3-inch bronze bell. Complete with wrought bronze turn and plate, royal finish. Weight, 12 lbs..... Per dozen, $17.50

**No. 292 AC**—3-inch bronze bell. Complete with wrought bronze turn and plate, antique copper finish. Weight, 10¾ lbs..... " 17.50

**No. 202 AC**—3½-inch bell. Otherwise same as No. 292AC. Weight, 16½ lbs..... " 20.00

**No. 393 R**—3-inch bronze bell. Complete with wrought bronze turn and plate, royal finish. Weight, 12 lbs. .... " 17.50

**No. 803 R**—3½-inch bell. Otherwise same as No. 393R. Weight, 12 lbs..... " 20.00

**No. 1391 G**—3-inch bronze bell. Complete with wrought steel turn and plate, geneva finish. Weight, 13½ lbs.. " 16.00

**No. 692 AC**—3-inch bronze bell. Complete with wrought bronze turn and plate, antique copper finish. Weight, 12 lbs. " 17.50

**No. 602 AC**—3½-inch bell. Otherwise same as No. 692AC. Weight, 12 lbs .... " 20.00

**No. 693 R**—3-inch bronze bell. Complete with wrought bronze turn and plate, royal finish. Weight, 12 lbs. " 17.50

**No. 603 R**—3½-inch bell. Otherwise same as No. 693R. Weight, 12 lbs " 20.00

One-twelfth dozen in box, with screws.

Two-thirds cut of Turn and Plate for Nos. 692AC to 603R.

# ROTARY DOOR BELLS.

Complete with Turns and Plates.

Two-thirds size cut of Plate and Turn for No. 3241AC.

Two-thirds size cut of Bell for No. 3241AC.

Two-thirds size cut of Plate and Turn for Nos. 02772R and 02772AC

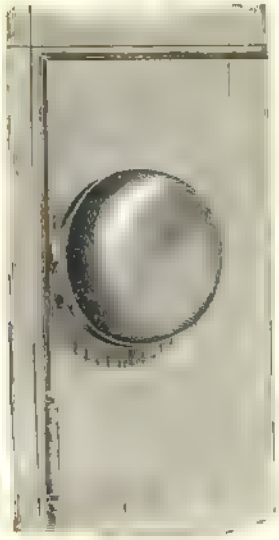
**No. 3241AC**—3-inch bronze bell. Complete with wrought bronze turn and plate, antique copper finish. Weight, 9 lbs. .....Per dozen, $10.00

**No. 02772R**—3-inch cast iron bell, antique copper finish. Complete with cast iron turn and plate, geneva finish. Weight, 12 lbs .....Per dozen, $12.00

**No. 2772AC**—Same as 02772R. With turn and plate, antique copper finish. Weight, 12 lbs.....Per dozen, $12.00

Two-thirds size cut of Bell for Nos. 02772R and 02772AC.

One-twelfth dozen in box, with screws.



Cut shows Bell in position.

# AUTOMATIC ALARM BELLS.

When once attached it requires no attention whatever. The act of closing the door sets the operating mechanism, so that the instant the door is opened the alarm is sounded. The bell may be rendered silent, when desired, by the stop mechanism.

Weight, 7½ lbs. .....Per dozen, $9.00

One-twelfth dozen in box, with screws.

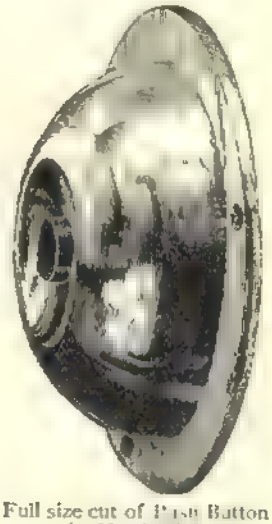
PACIFIC HARDWARE & STEEL COMPANY

# PUSH BUTTON DOOR BELLS.

Complete With Push Buttons.

Full size cut of Push Button for No. 215R

Half size cut of Bell.



Full size cut of Push Button for No. 122AC.

Two-thirds size cut of Push Button for No. 500AC.

Two-thirds size cut of Push Button for Nos. 715R and 722AC.

| Nos. | DESCRIPTION | Weight, Lbs. | Per Dozen |
|---|---|---|---|
| 215 R | 3½-inch bronze bell Complete with wrought bronze push button, royal finish | 13 | $21 00 |
| 122 AC | 3½ " " " " " " " " " " antique copper finish | 13 | 21 00 |
| 500 AC | 3½ " steel " " " " steel " " " " | 11 | 12 00 |
| 715 R | 3½ " bronze " " " bronze push button, royal finish | 15 | 21 00 |
| 722 AC | 3½ " " " " " " " " antique copper finish | 15 | 21 00 |

One-twelfth dozen in box, with screws

# Coopers' Tools.

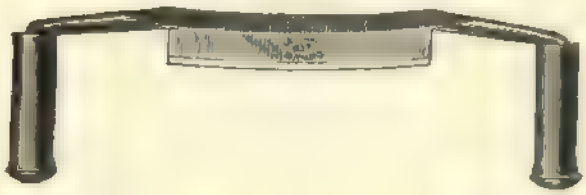
## Paring Shave.

| **Length,** inch | **7** | **8** |
|---|---|---|
| Weight per Dozen, lbs | 36 | 37 |
| Per Dozen | $11 25 | 13 25 |

## Hoop Shave.

| **Length,** inch | **7** | **8** |
|---|---|---|
| Weight per Dozen, lbs | 36 | 37 |
| Per Dozen | $11 25 | 13 25 |

## Heading Shave.

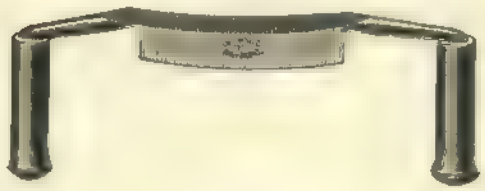


| **Length,** inch | **10** | **12** | **14** | **16** |
|---|---|---|---|---|
| Weight per Dozen, lbs | 36 | 37 | 38 | 39 |
| Per Dozen | $18 50 | 22 50 | 26 50 | 30 50 |

## Stave Shave.

| **Length,** inch | **7** | **8** |
|---|---|---|
| Weight per Dozen, lbs | 32 | 33 |
| Per Dozen | $12 50 | 14 50 |

## Backing Shave.

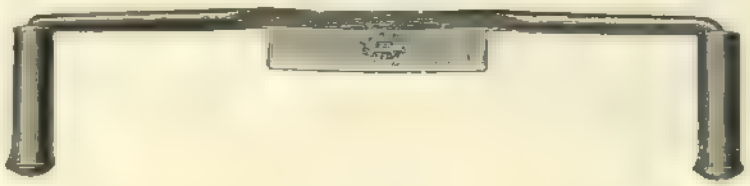


| **Length,** inch | **7** | **8** |
|---|---|---|
| Weight per Dozen, lbs | 30 | 32 |
| Per Dozen | $12 50 | 14 50 |

## Hollowing Shave.

| **Length,** inch | **7** | **8** |
|---|---|---|
| Weight per Dozen, lbs | 30 | 32 |
| Per Dozen | $12 50 | 14 50 |

## Shaveup Shave.

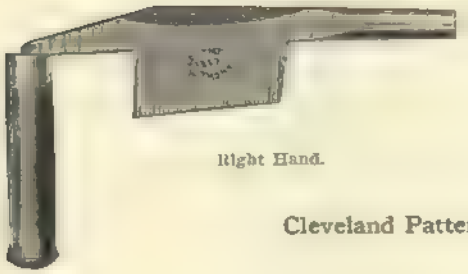


| **Length,** inch | **7** | **8** |
|---|---|---|
| Weight per Dozen, lbs | 40 | 42 |
| Per Dozen | $12 50 | 14 50 |

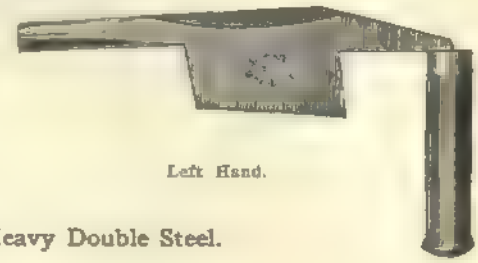
All Above Quarter Dozen in a Package.

# Coopers' Tools.

## Champer Knives.



Right Hand.



Left Hand.

**Cleveland Pattern, Extra Heavy Double Steel.**

| | | |
|---|---|---|
| **Length, inch** | 5 | 5½ |
| Weight per Dozen, lbs | 65 | 72 |
| Per Dozen | $18 50 | $20 50 |

## Drivers.

Nantucket.

**Steel, Unhandled.**

Weight per Dozen, 20 lbs., Per Dozen, $12 00

Hickory.

**With Rings.**

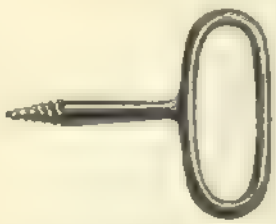
Weight per Dozen, 15 lbs., Per Dozen, $3 75

Short and Oval.

**Steel, Unhandled.**

Weight per Dozen, 15 lbs., Per Dozen, $15 00

## Coopers' Vise.



**Cast Steel.**

Weight per Dozen, 5 lbs. . Per Dozen, $7 50

## Coopers' Socket Driver.

No. 97

**Hickory Handles, Ringed.**

**No 97**—Cast Steel, Weight per Dozen, 16 lbs., Per Dozen, $15 00

## Coopers' Axe.

**Handled.**

| **Nos.** | **1** | **1½** | **2** |
|---|---|---|---|
| Weight per Dozen, lbs. | 65 | 72 | 80 |
| Per Dozen | $33 00 | 30 00 | 27 00 |

## Coopers' Adze.

**Handled.**

| **Nos.** | **1** | **1½** | **2** | **3** |
|---|---|---|---|---|
| Weight per Dozen | 48 | 45 | 38 | 33 |
| Per Dozen | $30 00 | 28 50 | 27 00 | 27 00 |

All Above Packed as Ordered.

# Coopers' Tools.

## Improved Iron Block Croze.

No. 128.

**Maple or Beech Boards.**

**No. 128**—Assorted Sizes, Weight Each, 4 lbs. ..... Each, $1 75

## V Croze.

No. 129

**Maple or Beech Boards.**

**No. 129**—Assorted Sizes, Weight Each, 3 lbs. ..... Each, $1 35

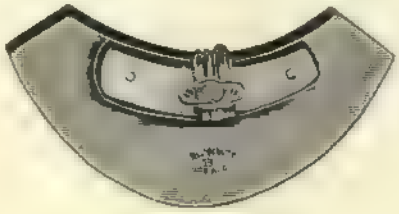
## Tight Barrel Howel.

No. 131.

**Maple or Beech Boards.**

**No. 131**—Assorted Sizes, Weight Each, 3½ lbs. ..... Each, $1 75

## Tight Barrel Croze.



No. 132.

**Maple or Beech Boards.**

**No. 132**—Assorted Sizes, Weight Each, 4 lbs. ..... Each, $1 50

## Spoke Shave.

No. 92.

**Double Iron, Walnut Handles.**

**No. 92**—Weight per Dozen, 2 lbs Per Dozen, $18 00

## Leveler.

No. 127

**Solid Beech.**

**No. 127** - Weight Each, 3 lbs . . . . . Each, $1 50

## Jointer.

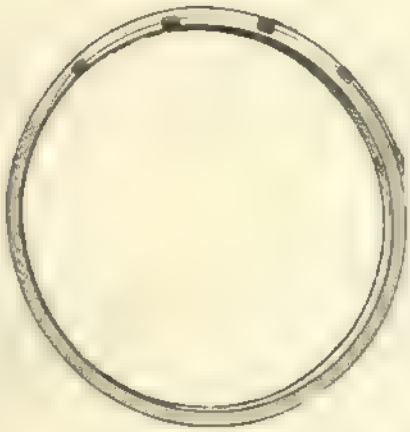
Stave and Heading.

No 133

**Maple, Double Iron.**

**No. 133**—3 ft. and 3 ft. 6 in , Weight Each, 14 and 16 lbs., Respectively. . . . . Each, $1 75

# Coopers' Tools.



## White's Truss Hoops.

**Meat Barrel**—6 Hoops, Head Hoop 18 in.....Per Set, $6 50
**Fish Barrel**—6 " " " 17½ " ..... " " 5 50
**Meat Half Barrel**—6 Hoops, Head Hoop 14½ in..... " " 4 75
**Fish Half Barrel**—6 " " " 14 " ..... " " 4 50
**Slack Barrel**—3 Hoops, Head Hoop 17 in..... " " 4 00

Average Weight Per Set 18 lbs.

## Tripps' Self Gauge Hoop Lock Cutter.

No. 126
This Machine Cuts the Block in One Motion.

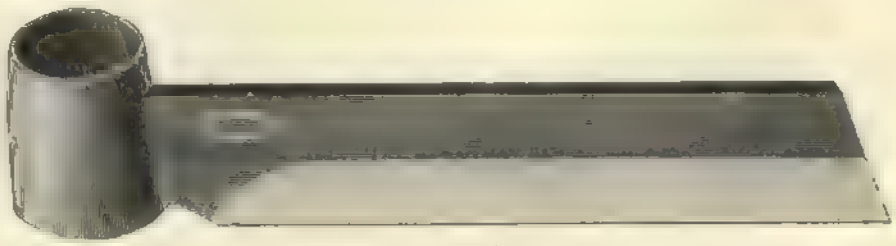
**No. 126**—Tripp's Cutter, Best Quality Steel Cutters, Weight Each, 12 lbs .....Each, $10 00
Extra Knives for Self Gauge..... Per Pair, 2 00

## Coopers' Flagging Iron.

No. 105

**No. 105**—Extra Cast Steel. Weight per Dozen, 16½ lbs Per Dozen, $9 00

## Froes.



Standard.

| **Length, inch** | **10** | **12** | **14** | **16** |
|---|---|---|---|---|
| Weight per Dozen, lbs | 45 | 50 | 58 | 65 |
| Per Dozen | $13 50 | 14 00 | 14 50 | 15 00 |

Two Dozen in a Case.

# Spoke Shaves.

## Stanley's.

**No. 51**—Double Iron, Raised Handle, 10 in., 2⅛ in. Cutter, Weight per Dozen, 7 lbs. . . . . Per Dozen, $3 50

**No. 53**—Adjustable, Raised Handle, 10 in., 2⅛ in. Cutter, Weight per Dozen, 10 lbs. . Per Dozen, $4 50

**No. 55**—Model Double Iron, Hollow Face, 10 in., 2⅛ in. Cutter, Weight per Dozen, 10 lbs. . . . . Per Dozen, $3 00

**No. 60**—Double Cutter, Hollow and Straight, 10 in., 1½ in. Cutter, Weight per Dozen, 9 lbs. . . . . Per Dozen, $4 50

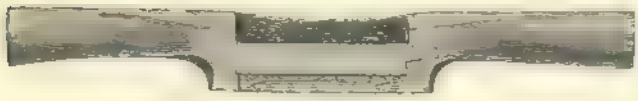
**No. 64**—Straight Handle, 9 in., 1¾ in. Cutter (with Thumb Screw), Weight per Dozen, 7 lbs. . . . . Per Dozen, $2 00

Patent Chamfer Shave.

This Tool can be easily adjusted by means of the thumb-screws attached to the Guides; and will chamfer an edge any desired width up to 1½ inch.

**No. 65**—Raised Handle, 1½ in Cutter, Weight per Dozen, 11 lbs . . . . . Per Dozen, $6 00

## Wood.



Beechwood Plated.

| Size, inch | 2½ | 3 | 3½ |
|---|---|---|---|
| Weight per Dozen, lbs. | 4 | 4½ | 5 |
| Per Dozen | $6 00 | 7 00 | 8 00 |

All Above Half Dozen in a Box.

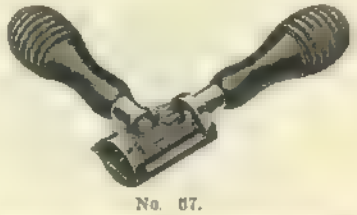
## Millers Falls.

Adjustable to Work in Small Circulars.

**No. 1**—Circular, 10 in. Long, 2 in. Cutter, Weight per Dozen, 6 lbs . . . . . Per Dozen, $9 00

## Stanley's Universal.

No. 67.



No. 67.

Both handles are detachable and either of them can be screwed into a socket on top of the stock thus enabling the owner to work into corners, or panels, as no other spoke shave can do

This Spoke Shave has two detachable bottoms adapting it equally well to circular work or straight, and by means of a movable width gauge, the tool can be used in rabetting.

**No. 67**—Full Nickel Plated, with Rosewood Handles, Weight per Dozen, 12 lbs . . . Each, $1 50

Twelfth Dozen in a Box.

# Drawing Knives.

## Carpenters'.

Columbia.

No. 1.

White's.

No. 31.

No. 1—Columbia Razor Blade, 1¼ in. Wide, Polished Hickory Handles, Capped and Ferruled.

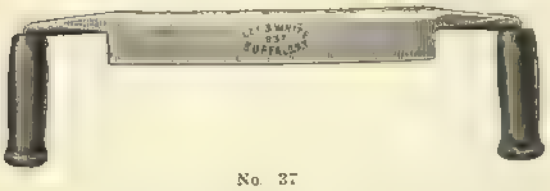
| **Length**, inch | **6** | **7** | **8** | **9** | **10** | **12** | **14** |
|---|---|---|---|---|---|---|---|
| Weight per Dozen, lbs | 14 | 16 | 17 | 18 | 19½ | 20½ | 22 |
| Per Dozen | $17 00 | 18 00 | 19 00 | 20 00 | 21 00 | 23 00 | 26 00 |

No. 31—White's Razor Blade, 1¼ in. Wide, Walnut Handles, Capped and Ferruled.

| **Length**, inch | **7** | **8** | **9** | **10** | **12** |
|---|---|---|---|---|---|
| Weight per Dozen, lbs | 16 | 17 | 18 | 19½ | 20½ |
| Per Dozen | $11 00 | 12 00 | 13 00 | 14 00 | 16 00 |

One Dozen in a Box.

## White's Shingle.

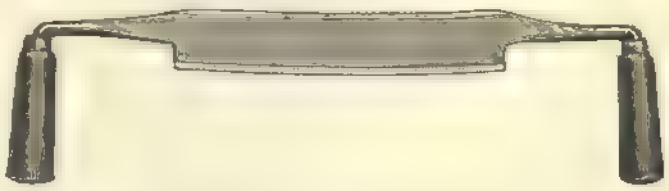


No. 37

No. 37—Solid Cast Steel, Walnut Handles.

| **Length**, inch | **12** | **14** | **16** |
|---|---|---|---|
| Weight per Dozen, lbs | 31 | 36 | 40 |
| Per Dozen | $18 00 | 20 00 | 22 00 |

## White' Spar.



No. 77—Solid Cast Steel, Walnut Handles.

| **Length**, inch | **12** |
|---|---|
| Weight per Dozen, lbs | 40 |
| Per Dozen | $30 00 |

Quarter Dozen in a Package.

## Carpenters' Folding Handle.

No. 1901—Instantly Adjusted, Every Blade Warranted.

| **Length**, inch | **8** | **9** | **10** |
|---|---|---|---|
| Weight per Dozen, lbs | 17 | 18 | 19 |
| Per Dozen | $19 00 | 20 00 | 21 00 |

Quarter Dozen in a Box.

# Razors.

## Columbia Cutlery Co., Warranted.

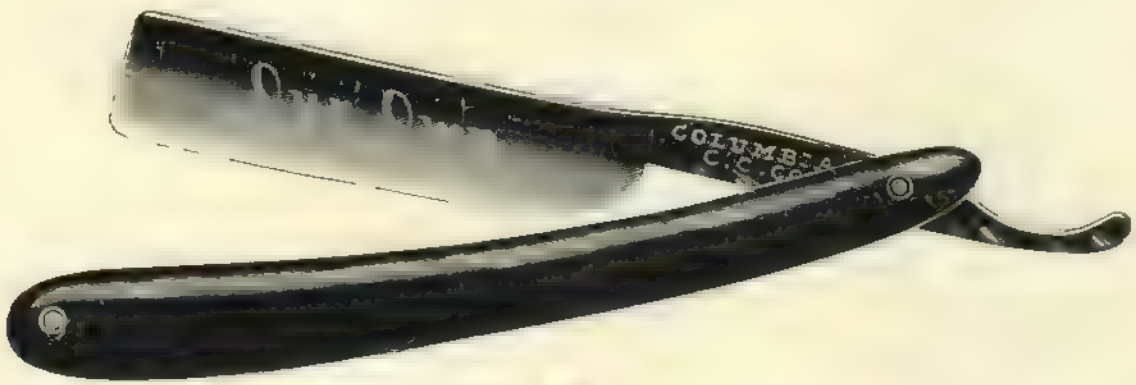
Full Size Cuts.

No. 386

**No. 386**—5¼ in. Blade, Hollow Point, One-eighth Concave, Black Rubber Handle, Glazed Blade . . . . . Per Dozen, $13 00

No. 1381

**No. 1381**—5¼ in. Blade, Square Point, One-quarter Concave, Flat Black Rubber Handle, Glazed Blade . . . . . Per Dozen, $14 00




No. 226

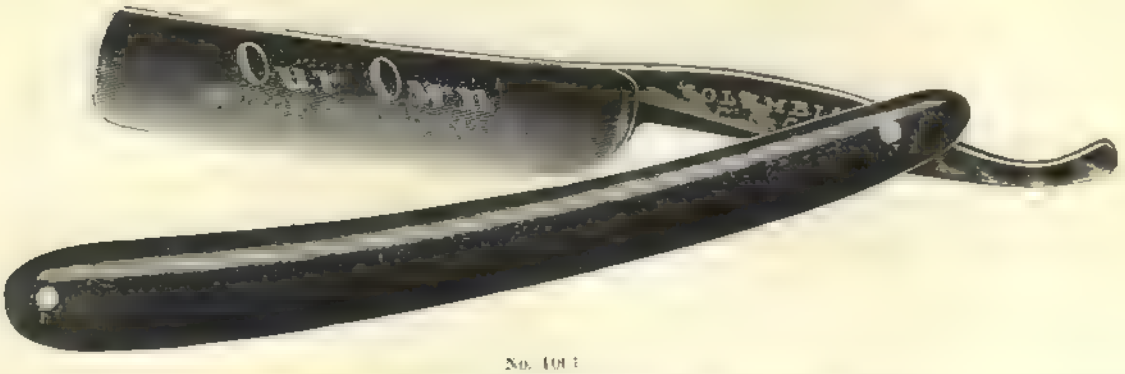
**No. 226**—5¾ in. Blade, Square Point, Half Concave, Black Rubber Handle, Glazed Blade . . . . . Per Dozen, $18 00

All Half Dozen in a Box.

# Razors.

## Columbia Cutlery Co., Warranted.

Full Size Cuts.



No. 1061

**No. 1061** ⅝ in. Blade, Round Point, Half Concave, Black Rubber Handle, Glazed Blade . . . . . Per Dozen, $18 00
**No. 1062**—¾ " " "

# Razors.

## Columbia Cutlery Co., Warranted.

Full Size Cuts

No. 347.

**No. 347** $\frac{3}{4}$ in. Blade, Square Point, Full Concave, Black Rubber Handle, Glazed Blade, Black Etching. . . . . Per Dozen, $30 00

**No. 346**—$\frac{5}{8}$ in Blade, Description as Above . . . . . " " 30 00

**No. 2231**—$\frac{5}{8}$ " " " " " with Flat White Celluloid Handle. . . . . " " 32 00

No. 1661

**No. 1661**—$\frac{5}{8}$ in. Blade, Square Point, Three Quarters Concave, Black Rubber Handle, Crocused Blade, Fancy Gimped Tang, Etched . . . . . Per Dozen, $32 00

No. 1801SP.

**No. 1801 S. P.**—$\frac{5}{8}$ in., Blade, Square Point, Three Quarters Concave, Imitation Shell, Crocused Blade, Gold Etching . . . . . Per Dozen, $36 00

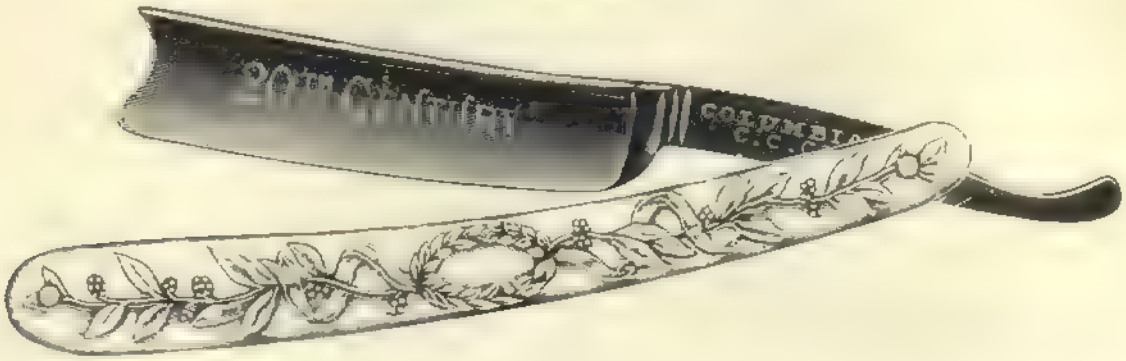
**No. 1801 H. P.**—$\frac{5}{8}$ in. Blade, Hollow Point, Three Quarters Concave, Imitation Shell, Crocused Blade, Gold Etching . . . . . Per Dozen, 36 00

All Half Dozen in a Box.

# Razors.

## Columbia Cutlery Co., Warranted.

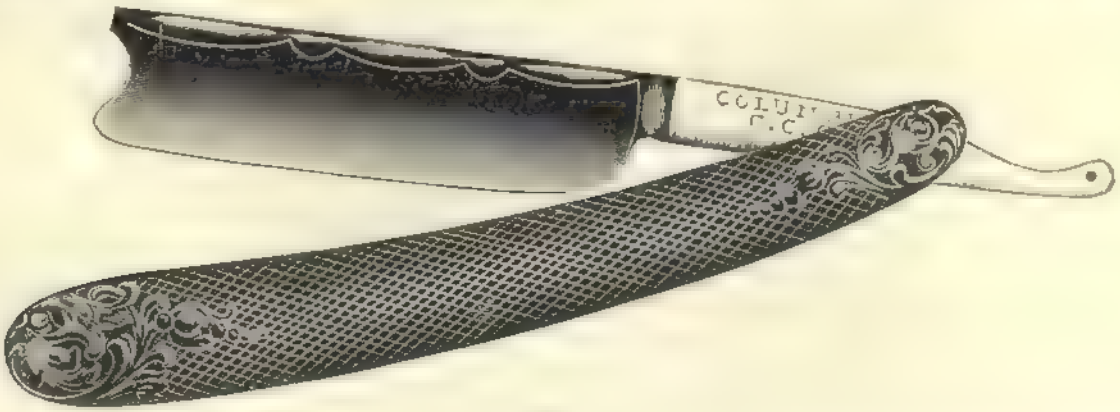
Full Size Cuts.



No. 1511 H P

**No. 1511 HP**—5/8 in. Blade, Hollow Point, Three-quarter Concave, Fancy Celluloid White Handle, Fancy Gimped Tang, Black Etching.....Per Dozen, $30 00

**No. 1511 SP**—5/8 in. Blade, Square Point, Three quarter Concave, Fancy Celluloid White Handle, Fancy Gimped Tang, Black Etching.....Per Dozen, 30 00



No. 1821 H P

**No. 1821 HP**—5/8 in. Blade, Hollow Point, Three quarter Concave, Fancy Black Rubber Handle, Crocused Blade, Fancy Back, Ivory Tang.....Per Dozen, $36 00

No. 2051 S. P.

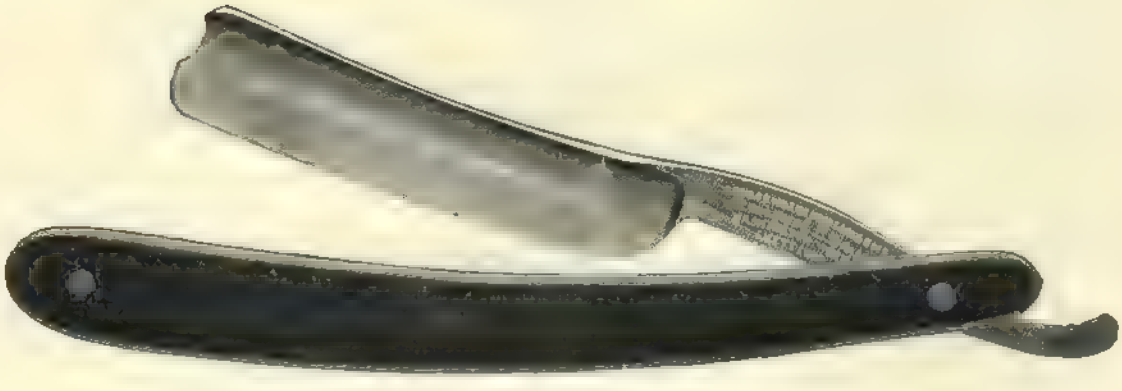
**No. 2051 SP**—5/8 in. Blade, Square Point, Three-quarter Concave, Black Rubber Handle, Crocused Blade, Black Etching, Pearl Tang.....Per Dozen, $42 00

Nos. 1511 HP and 1511 SP, Half Dozen in a Box, Balance Quarter Dozen.

# Razors.

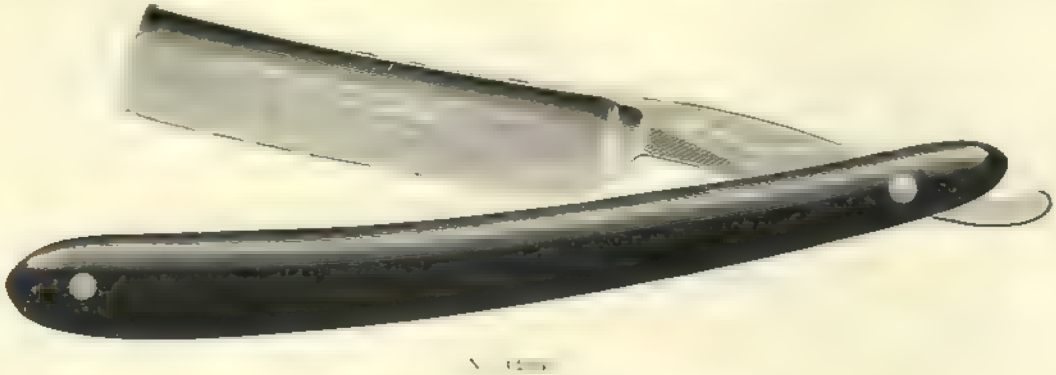
## George Wostenholm's IXL.

Full Size Cuts



No. 01909

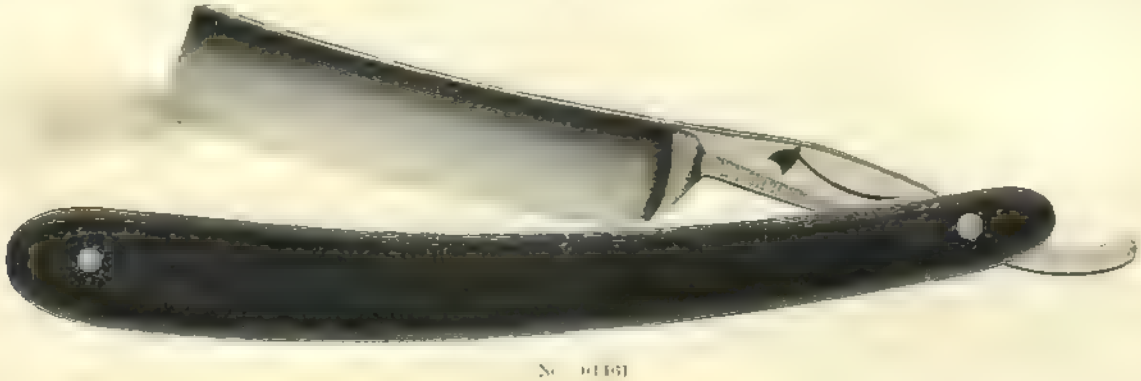
**No. 01909**—⅝ in. Blade, Hollow Point, Half Concave, Glazed, Oval Black Handle — Per Dozen, $11 00



No. 02363

True Pipe.

**No. 02363**—⅝ in. Blade, Square Point, ¾ Concave, Glazed, Oval Black Handle ..... Per Dozen, $17 50
**No. 02364**—¾ " " " " " " " " " " " " 17 50



No. 01461

True Pipe.

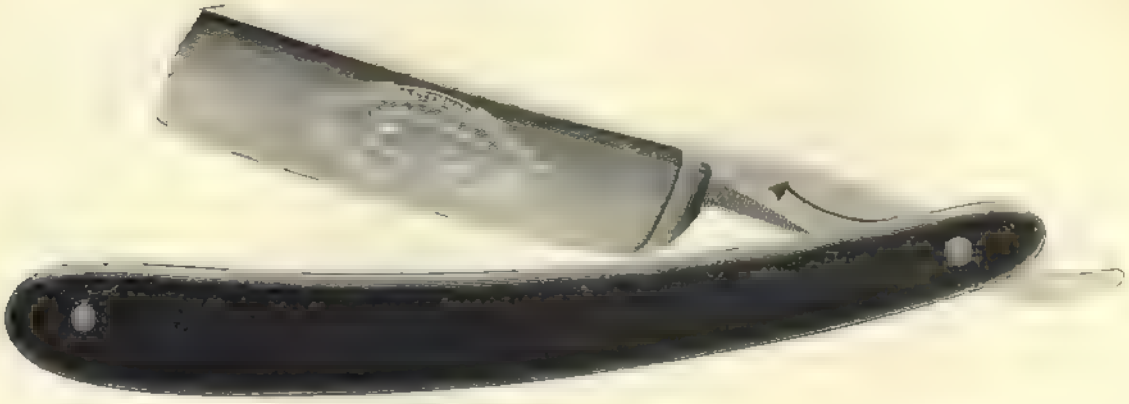
**No. 01461**—⅝ in. Blade, Square Point, Full Concave, Glazed, Flat Black Handle — Per Dozen, $22 00

All Half Dozen in a Box.

# Razors.

## George Wostenholm's IXL.

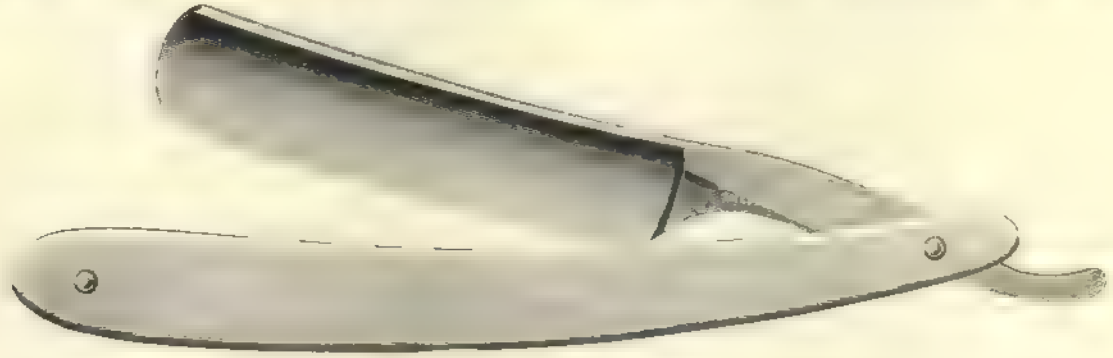
Full Size Cuts



No. 3492

**True Pipe.**

**No. 03492**—$\frac{5}{8}$ in. Blade, Round Point, $\frac{4}{4}$ Concave, Glazed, Oval Black Handle, Gold Etched  Per Dozen, $18 00



No. 0895

**No. 0895**—$\frac{5}{8}$ in. Round Point, Half Concave, Glazed, Oval Grained Celluloid Handle  Per Dozen, $17 50

No. 01013

**No. 01013**—$\frac{3}{4}$ in. Blade, Irish Point, Concave, Crocus Polished, Flat Grained Celluloid Handle, Per Dozen, $26 00

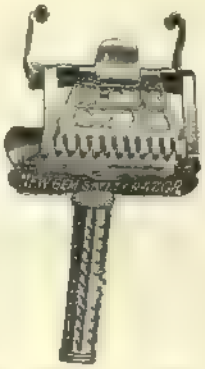
All Half Dozen in a Box.

# Safety Razors.

## New Gem.

Case Packed for Shipment

Frame Blade and Handle Set up for Shaving

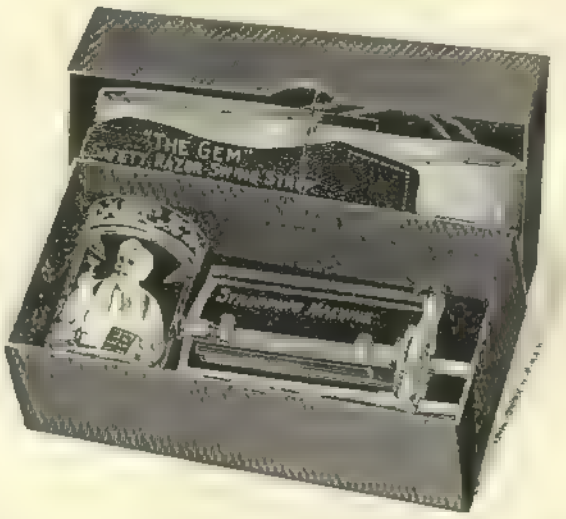


Frame open for cleaning

Case No. 18.

## Case No. 2.

## Gem Outfit.




**New Gem**—Safety Frame, Including One Blade, Complete in Tin Case ..... Per Dozen, $24 00

**Case No. 18** Consists of One Gem Safety Frame, Wood Handle, Including One Blade, Complete in Polished Wood Case, Size, $3\frac{3}{4} \times 2\frac{1}{2} \times 1\frac{1}{2}$ in ..... Each, 2 50

**Case No. 2**—Consists of One New Gem Safety Frame, with Two Perfectly Adjusted Blades, Elegantly Finished, in Morocco Leather Box, Size $3\frac{1}{2} \times 2\frac{1}{2} \times 1\frac{1}{2}$ in ..... Each, 3 00

**Gem Outfit**—Consists of One New Gem Safety Frame, One Blade, Stropping Machine and Combination Swing Strop in Muslin Case, Size $4\frac{1}{2} \times 2 \times 2\frac{1}{2}$ in..... Each, 5 00

This makes a Very Desirable Combination Outfit, and is Especially Constructed in Compact Form for Traveling

**Extra Blades**—In Tin Box..... Per Dozen, 18 00

# Shoenberger's Horse Shoes.

## Extra Light.

Front.

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| Weight Each, oz | 10 | 13 | 15½ | 18½ | 22 | 25½ | 30 |
| No. in Keg | 160 | 128 | 103 | 86 | 73 | 63 | 53 |
| Per Keg of 100 lbs | | | | | | $ | |

Hind.

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| Weight Each, oz | 9 | 12½ | 13 | 16 | 19½ | 23 | 27 |
| No. in Keg | 178 | 152 | 123 | 100 | 82 | 70 | 59 |
| Per Keg of 100 lbs | | | | | | $ | |

Mixed, Front and Hind, Equal Quantities of any Number in 100 lb. Kegs

## Light.

Front.

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| Weight Each, oz. | 11 | 14 | 17 | 20 | 25 | 29 | 36 | 41 | 48 |
| No. in Keg | 145 | 114 | 94 | 80 | 64 | 55 | 44 | 39 | 33 |
| Per Keg of 100 lbs | | | | | | | | $ | |

Hind.

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|---|
| Weight Each, oz. | 9 | 11 | 14 | 18 | 22 | 27 | 31 | 35 | 40 |
| No. in Keg | 178 | 145 | 114 | 89 | 73 | 59 | 52 | 46 | 40 |
| Per Keg of 100 lbs | | | | | | | | $ | |

Mixed, Front and Hind, Equal Quantities of any Number in 100 lb. Kegs

# Perkins' Horse Shoes.

## Medium.

Front.

Hind.

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Weight Each, oz | 17 | 21 | 25 | 30 | 35 | 41 | 47 | 53 |
| No. in Keg | 94 | 76 | 64 | 53 | 46 | 39 | 34 | 30 |
| Per Keg of 100 lbs | | | | | | | $ | |

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|---|---|---|---|---|---|---|---|---|
| Weight Each, oz | 14 | 17 | 21 | 24½ | 30 | 35 | 40 | 45 |
| No. in Keg | 114 | 94 | 76 | 67 | 53 | 46 | 40 | 36 |
| Per Keg of 100 lbs | | | | | | | $ | |

Mixed, Front and Hind, Equal Quantities of any Number, in 100 lb. Kegs

## Calked.

Front.

Hind.

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Weight Each, oz | 10 | 12 | 14 | 16½ | 20 | 25 |
| No. in Keg | 160 | 134 | 114 | 94 | 76 | 64 |
| Per Keg of 100 lbs | | | | | $ | |

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Weight Each, oz | 10 | 12 | 14 | 16½ | 20 | 25 |
| No. in Keg | 160 | 134 | 114 | 94 | 76 | 64 |
| Per Keg of 100 lbs | | | | | $ | |

# Perkins' Horse Shoes.

## Extra Light.

**Front.**

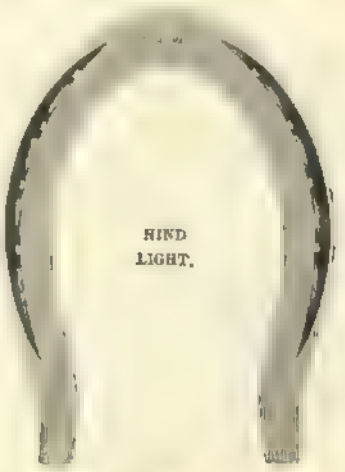
| Nos .... | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| Weight Each., oz. | 10½ | 13 | 16 | 19 | 22½ | 26 | 32 |
| No. in Keg | 152 | 123 | 100 | 84 | 71 | 62 | 50 |
| Per Keg of 100 lbs | | | | | | $ | . |

**Hind.**

| Nos..... | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| Weight Each, oz | 9 | 10 | 13 | 16 | 19 | 23 | 28 |
| No. in Keg..... | 178 | 160 | 123 | 100 | 84 | 70 | 57 |
| Per Keg of 100 lbs | . . | | | . | . | $. | |

Mixed Front and Hind, Equal Quantities of any Number in 100 lb Kegs

## Light.




**Front.**

| Nos ..... | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|
| Weight Each, oz | 11 | 13½ | 17 | 20 | 24½ | 30 | 34 | 40 |
| No. in Keg..... | 134 | 114 | 89 | 76 | 64 | 50 | 43 | 37 |
| Per Keg of 100 lbs..... | | | | | | | $ | . . |

**Hind.**

| Nos..... | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|
| Weight Each, oz... | 9 | 12½ | 15 | 18 | 23 | 28 | 33 | 37 |
| No. in Keg ..... | 160 | 123 | 107 | 84 | 70 | 57 | 49 | 44 |
| Per Keg of 100 lbs | | . | . | | | . | $ | |

Mixed, Front and Hind, Equal Quantities of any Number in 100 lb Kegs

# Perkins' Horse Shoes.

## Snow or Trotting.

Front.

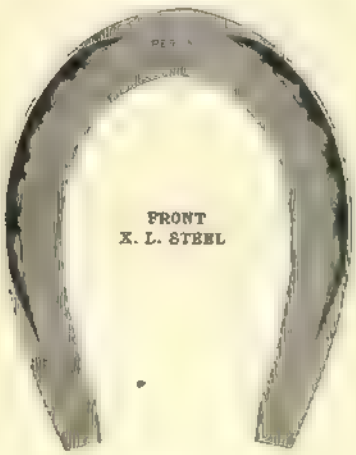
| Nos | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| Wt. Each, oz. | 10 | 12 | 14½ | 18 | 21 | 25 | 27 |
| No. in Keg | 160 | 134 | 114 | 94 | 76 | 64 | 60 |
| Per Keg of 100 lbs | | | | | | | $ |

Hind.

| Nos | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| Wt. Each, oz. | 8 | 10 | 12 | 15 | 18 | 22 | 25½ |
| No. in Keg | 200 | 145 | 134 | 107 | 89 | 76 | 63 |
| Per Keg of 100 lbs | | | | | | | $ |

Mixed, Front and Hind, Equal Quantities of any Number in 100 lb. Kegs.

## X. L. Steel.




Front.

| Nos | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Weight Each, oz. | 10½ | 12 | 14½ | 17½ | 21 | 25 |
| No. in Keg | 160 | 134 | 114 | 94 | 72 | 64 |
| Per Keg of 100 lbs | | | | | $ | |

Hind.

| Nos | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Weight Each, oz. | 8 | 9 | 10 | 12 | 16 | 19 |
| No. in Keg | 200 | 177 | 160 | 134 | 107 | 84 |
| Per Keg of 100 lbs | | | | | $ | |

Mixed Front and Hind, Equal Quantities of any Number in 100 lb. Kegs.

# Shoenberger's Horse Shoes.

## Bronco.

Without Heel.

| Nos | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| Weight Each, oz. | 9 | 11 | 13 | 15 |
| No. in Keg | 178 | 145 | 123 | 107 |
| Per Keg of 100 lbs | | | $ | |

## Bronco Turned Heel.

With Heel.

| Nos | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| Weight Each, oz. | 9 | 11 | 13 | 15 |
| No. in Keg | 178 | 145 | 123 | 107 |
| Per Keg of 100 lbs | | | $ | |

# Mule Shoes.

## Shoenberger's.

Shoenberger's Mule.

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Weight Each, oz | 9 | 12 | 14 | 16 | 23 | 27 |
| No. in Keg | 178 | 133 | 114 | 100 | 70 | 59 |
| Per Keg of 100 lbs | | | | | $ | |

## Perkins'.

Perkins' Mule.

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| Weight Each, oz | 9 | 10 | 12 | 16 | 20 | 23 |
| No. in Keg | 177 | 160 | 133 | 100 | 80 | 69 |
| Per Keg of 100 lbs | | | | | $ | |

# Horse Shoe Nails.

## Regular Head.

## City Head.

## French Head.

No. 4

**For Punched Shoes without Creases, Nos. 5 to 8.**

### Putnam.

| Nos | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|
| Regular Head.....Per Pound. | $0 50 | 0 26 | 0 23 | 0 21 | 0 20 | 0 19 | 0 18 |
| City Head..... " " | .... | 26 | 23 | 21 | 20 | | |
| French Head .... .... .. " " | .... | 26 | 23 | 21 | 20 | | |

Five Pounds in a Carton, Twenty-five Pounds in a Box

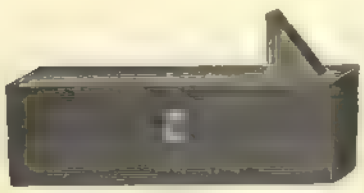
### Neponset.

| Nos | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|
| Regular Head.....Per Pound. | $0 22 | 0 19 | 0 18 | 0 17 | 0 16 | 0 16 |
| City Head..... " " | 22 | 19 | 18 | 17 | 16 | |

Five Pounds in a Carton, Twenty-five Pounds in a Box.

# Steel Toe Calks.

## City Pattern.



Blunt.

| No. | Dimensions. Inch. | Per Pound. |
|---|---|---|
| 1 | 1½× ½ ×⅜ | $0 12 |
| 2 | 1¾× 9/16×7/16 | 12 |
| 3 | 2 × ⅝ ×½ | 12 |
| 4 | 2¼× ¾ ×½ | 12 |
| 5 | 2½×13/16×9/16 | 12 |
| 6 | 2¾× ⅞ ×⅝ | 12 |
| 7 | 3 ×15/16×⅝ | 12 |

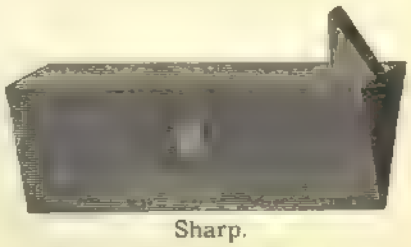
## Country Pattern.

Medium Blunt.

| No. | Dimensions. Inch. | Per Pound. |
|---|---|---|
| 1 | 1 7/16×17/32× 5/16 | $0 12 |
| 2 | 1 11/16× 9/16× 11/32 | 12 |
| 3 | 1 7/8× 5/8× 13/32 | 12 |
| 4 | 2 1/16× 11/16× 7/16 | 12 |
| 5 | 2 1/2 × 13/16× 1/2 | 12 |
| 6 | 2 3/4 × 15/16× 1/2 | 12 |
| 7 | 3 × 1 × 1/2 | 12 |

Twenty-five Pounds in a Box.

## Sharp Pattern.



Sharp.

| No | Dimensions. Inch. | Per Pound |
|---|---|---|
| 1 | [illegible] | $0 12 |
| 2 | [illegible] | 12 |
| 3 | [illegible] | 12 |
| 4 | [illegible] | 12 |
| 5 | [illegible] | 12 |
| 6 | [illegible] | 12 |

# Shoenberger's Horse Shoes.

## Medium.

| Front. | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Nos.** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
| Weight Each, oz | 17 | 20 | 25 | 29 | 35 | 40 | 46 | 55 |
| No. in Keg | 94 | 80 | 64 | 55 | 46 | 40 | 35 | 29 |
| Per Keg of 100 lbs. | | | | | | | $ | |

| Hind. | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Nos.** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** |
| Weight Each, oz | 14 | 16 | 20 | 24 | 29 | 34 | 38 | 43 |
| No. in Keg | 114 | 100 | 80 | 67 | 55 | 47 | 42 | 37 |
| Per Keg of 100 lbs | | | | | | | $ | |

Mixed Front and Hind, Equal Quantities of any Number, in 100 lb. Kegs

## Snow or Roadster.

| Front. | | | | | |
|---|---|---|---|---|---|
| **Nos.** | **1** | **2** | **3** | **4** | **5** |
| Weight Each, oz | 11 | 14 | 17 | 21 | 24 |
| No. in Keg | 145 | 114 | 94 | 76 | 67 |
| Per Keg of 100 lbs | | | | $ | |

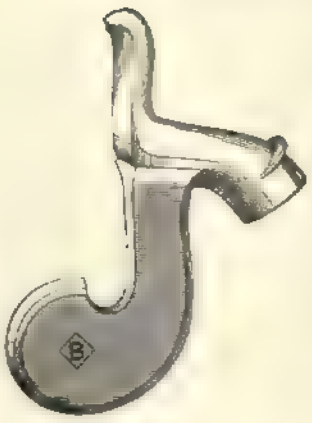
| Hind. | | | | | |
|---|---|---|---|---|---|
| **Nos.** | **1** | **2** | **3** | **4** | **5** |
| Weight Each, oz | 9 | 11 | 15 | 18 | 21 |
| No. in Keg | 178 | 145 | 107 | 89 | 76 |
| Per Keg of 100 lbs | | | | $ | |

Mixed, Front and Hind, Equal Quantities of any Number, in 100 lb. Kegs.

# GUN MATERIAL.

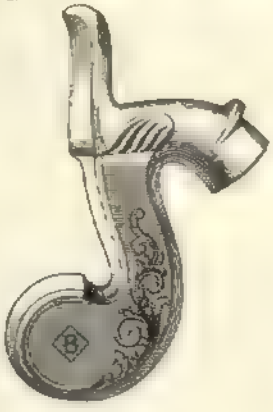
## HAMMERS.

MUZZLE LOADING



No. 656.
Flat Body, Filed.

| | Per dozen |
|---|---|
| No. 656—1½ in | $4 00 |
| No. 657—1⅝ " | 4 00 |
| No. 658—1¾ " | 4 00 |



No. 659.
Flat Body, Filed and Engraved.

| | Per dozen |
|---|---|
| No. 659—1½ in | $5 00 |
| No. 660—1⅝ " | 5 00 |
| No. 661—1¾ " | 5 00 |

BREECH LOADING

No. 670.
Round Body, Filed

| | Per dozen |
|---|---|
| No. 670—1½ in | $5 00 |
| No. 671—1⅝ " | 5 00 |
| No. 672—1¾ " | 5 00 |

No. 673
Round Body, Filed and Engraved.

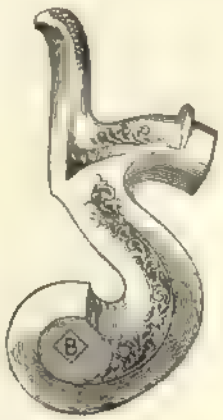
| | Per dozen |
|---|---|
| No. 673—1½ in | $6 00 |
| No. 674—1⅝ " | 6 00 |
| No. 675—1¾ " | 6 00 |

Nos. 656, 657, 658, plain, stamped. Per dozen, $1 50

BREECH LOADING

No. 678.
Beveled Edge, Filed

| | Per dozen. |
|---|---|
| No. 676—1½ in | $6.00 |
| No. 677—1⅝ " | 6 00 |
| No. 678—1¾ " | 6.00 |

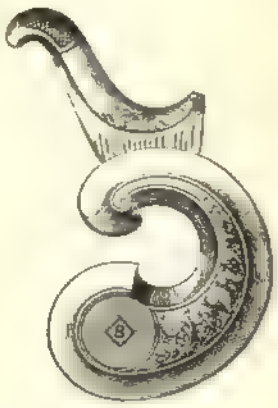


No. 681.
Beveled Edge, Engraved, Filed.

| | Per dozen. |
|---|---|
| No. 679—1½ in | $7 00 |
| No. 680—1⅝ " | 7.00 |
| No. 681—1¾ " | 7.00 |

No. 692.
Circular Concave, Filed.

| | Per dozen. |
|---|---|
| No. 690—1½ in. | $7 00 |
| No. 691—1⅝ " | 7 00 |
| No. 692—1¾ " | 7.00 |



No. 695.
Circular, Concave, Filed, Engraved.

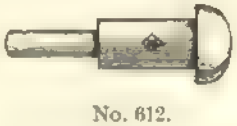
| | Per dozen |
|---|---|
| No. 693—1½ in | $8 00 |
| No. 694—1⅝ " | 8 00 |
| No. 695—1¾ " | 8.00 |

Nos. 676, 677, 678, 690, 691, 692, plain, stamped. Per dozen, $2.00.

## BREECH LOADING PLUNGERS.

No. 610.

No. 611.



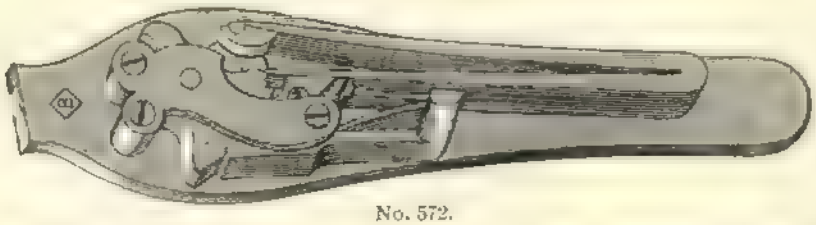
No. 612.

No. 614

| | Per dozen |
|---|---|
| No. 610—Small | $0 60 |
| No. 611— " raised center | .80 |
| No. 612—Notched solid head | $1 50 |
| No. 614—Plain solid head | 1 50 |

# GUN MATERIAL.

## LOCKS.



No. 572.

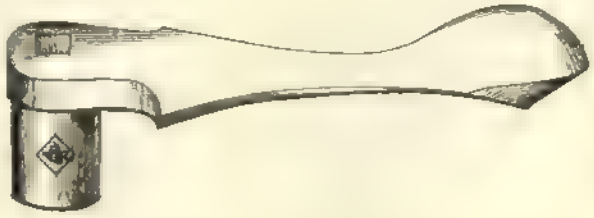
**No. 572**—Filed iron, back action, breech loading, polished..... Per pair, $4.00

No. 573.

| | | |
|---|---|---|
| **No. 573**—Filed iron, bar action, breech loading, polished.... | Per pair, | $4 00 |
| **No. 570**—Back action muzzle loading, polished and engraved.. | " | 3.00 |
| **No. 571**—Bar " " " " | " | 3.00 |

## SIDE AND TOP LEVERS.

Nos. 615 and 616



Nos. 617 and 618

| | | |
|---|---|---|
| **No. 615**—Side forged and machined, rough | Per dozen, | $12 00 |
| **No. 616**— " " " " finished | " | 18.00 |
| **No. 617**—Top " " " rough | " | 8 00 |
| **No. 618**— " " " " finished | " | 15.00 |

## TOP LEVER ACTION SPRINGS.

No. 710 No. 711 No. 712. No. 713 No. 714. No. 715 No. 716.

| | | |
|---|---|---|
| **No. 710**—Breech loading, center fire | Per dozen, | $5 00 |
| **No. 711** " " " | " | 5 00 |
| **No. 712**— " " " | " | 5 00 |
| **No. 713**— " " " | " | 5 00 |
| **No. 714**— " " " | " | 5 00 |
| **No. 715**— " " " | " | 5 00 |
| **No. 716**— " | " | 5 00 |
| **No. 717**— " | | 5 00 |

PACIFIC HARDWARE & STEEL COMPANY

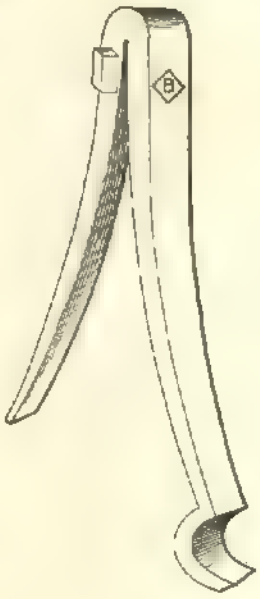
# GUN MATERIAL.

## MAINSPRINGS.

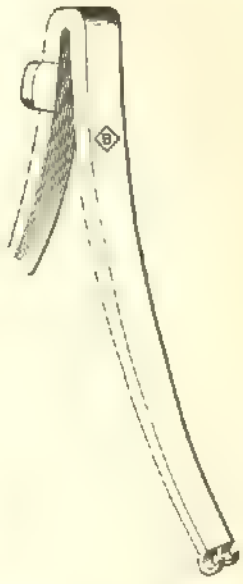
No. 699.

No. 700.

No. 701.



No. 702

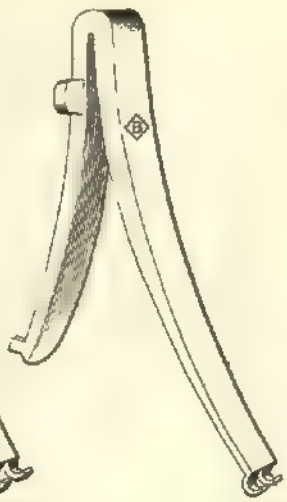


No. 703.

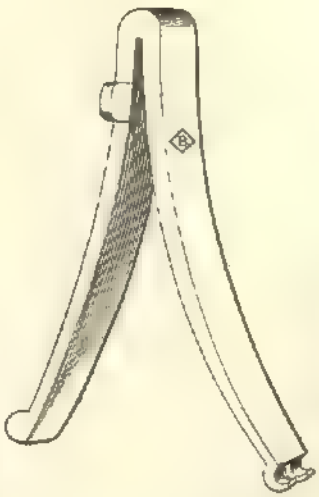
**No. 699**—Filed back action muzzle loading hook ..... Per dozen, $2.50
**No. 700**— " bar " " " " " 2.50
**No. 701**— " back " " " " " 2.50
**No. 702**— " bar " " " " " 2.50
**No. 703**— " back " " " swivel " 2.50

No. 704

No. 705



No 706



No. 707

No. 708.

**No. 704**—Filed back action breech loading swivel ..... Per dozen $6 00
**No. 705**— " bar " " " " " 6.00
**No. 706**— " " " " " " " 6 00
**No. 707**— " back " " " " " 6 00
**No. 708**— " bar " " " " " 6 00

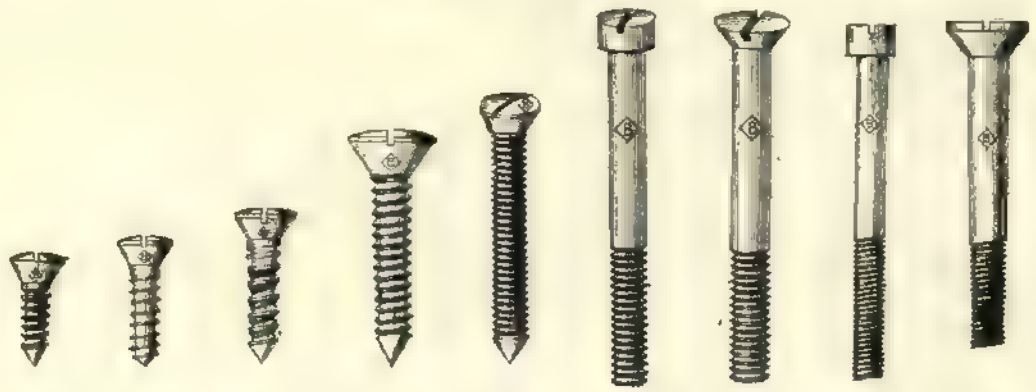
# GUN MATERIAL.

## WORMERS.

No. 508. No. 506. No. 507. No. 509. No. 510. No. 504. No. 503. No. 501. No. 500. No. 502.

| | | |
|---|---|---|
| **No. 500**—Reverse Worm, iron shank, $\frac{3}{32}$ inside diameter | Per dozen, | $1 00 |
| **No. 501**— " " " " $\frac{10}{32}$ " " | " | 1.20 |
| **No. 502**— " " " " $\frac{11}{32}$ " " | " | 1 50 |
| **No. 503**— " " brass shank, slotted, $\frac{9}{32}$ inside diameter | " | 2.00 |
| **No. 504**— " " " " $\frac{10}{32}$ " " | " | 2.20 |
| **No. 505**— " " " " $\frac{11}{32}$ " " | " | 2.50 |
| **No. 506**—Brass Fluted Worm, bright screw, $\frac{9}{32}$ inside diameter | " | 1.50 |
| **No. 507**— " " " " $\frac{10}{32}$ " " | " | 1.50 |
| **No. 508**— " " " " $\frac{11}{32}$ " " | " | 1.50 |
| **No. 509**— " " " " extra length, $\frac{9}{32}$ inside diameter | " | 2.50 |
| **No. 510**— " " " " " " $\frac{10}{32}$ " " | " | 2.50 |
| **No. 511**— " " " " " " $\frac{11}{32}$ " " | " | 2.50 |

## PINS AND SCREWS.



No. 577. No. 578. No. 579. No. 580. No. 581. No. 583. No. 582. No. 584. No. 585.

| | | |
|---|---|---|
| **No. 577**—Fore-end Screw | Per dozen, | $0.40 |
| **No. 578**—Trigger Plate Screw | " | .40 |
| **No. 579**—Guard Screw | " | .40 |
| **No. 580**—Heel Plate Screw | " | 50 |
| **No. 581**— " " " | " | .50 |
| **No. 582**—Screw Breech Pin | " | .40 |
| **No. 583**— " Side " | " | 40 |
| **No. 584**— " " " long | " | 40 |
| **No. 585**— " Breech " short | " | .40 |

PACIFIC HARDWARE & STEEL COMPANY

# GUN MATERIAL.

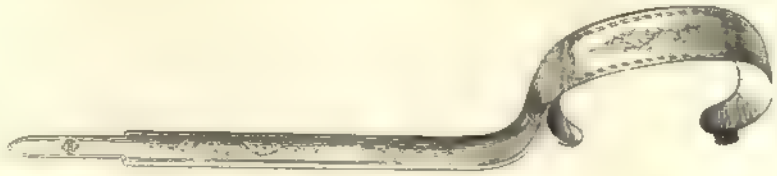
## GUARDS.

No. 535.

**No. 535**—Tiled, cast ..... Per dozen, $8.00

No. 536.

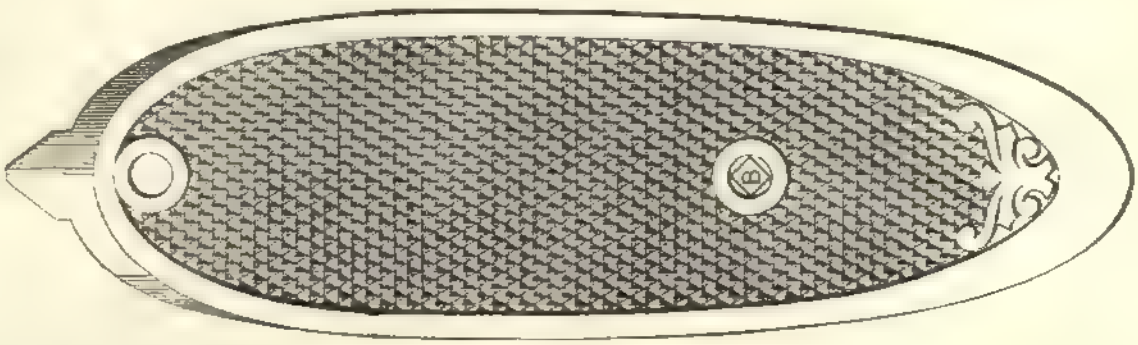
**No. 536**—Malleable iron ..... ...Per dozen, $6 00



No. 537.

**No. 537**—Finished and engraved, double ..... Per dozen, $9 00

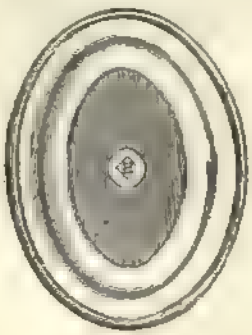
## BUTT PLATE.



No. 621.

**No. 621**—Rubber, assorted patterns ..... ...Per dozen, $12 00

## PISTOL GRIP CAPS.



No. 619.

**No. 619**—Horn..... ...Per dozen, $2.00

No. 620.

**No. 620**—Fancy ..... ...Per dozen, $2.00

# GUN MATERIAL.

## SEARS.

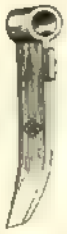
No. 600.

No. 601.

Nos. 602 and 603.

**No. 600**—Filed iron, back action, gunlock sear..Per dozen, $2 00
**No. 601**— " steel, bar " " " " 3 00
**No. 602**— " iron, back " " " " 2.00
**No. 603**— " steel, bar " " " " 3 00

## SEAR SPRINGS.



No. 720.

No. 721.

No. 722

**No. 720**—Filed steel, back action, gunlock sear spring.....Per dozen. $3 00
**No. 721**—Filed steel, bar action, gunlock sear spring, right and left..... 3 00
**No. 722**—Filed steel, back action, gunlock sear spring, right and left..... " 3 00

## TUMBLERS.

No. 590.

No 591.

No. 592

No 593.

**No. 590**—Filed back action swivel.....Per dozen, $2 50
**No. 591**— " bar " " " 2 50
**No. 592**— " back " rebounding " 3 50
**No. 593**— " bar " " " 3 50

## SWIVELS.

No. 640.

No. 641.

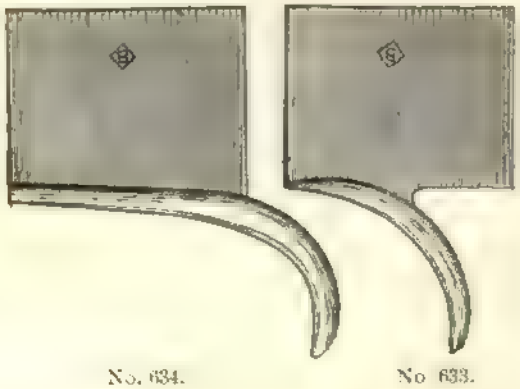
No. 642.

No. 643.

No. 644.

**No. 640**—Filed iron, single horn.....Per dozen, $1 00
**No. 641**— " steel, " " " 1 50
**No. 642**— " " double " " 3 00
**No. 643**— " iron, " " " 2 50
**No. 644**— " " " " " 2 50

## TRIGGERS.



No. 634. No 633.

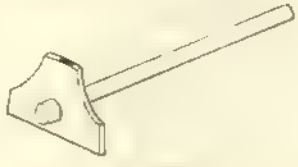
**No. 633**—Stamped, right hand. Per dozen, $1 00
**No. 634**— " left 1 00

## TRIGGER PLATE.

No. 539

**No. 539**—Malleable .....Per dozen, $5 00

## SHELL EXTRACTORS.



No. 632.

**No. 632**—Steel forged.....Per dozen, $9.00

# GUN MATERIAL

## NIPPLES.

No. 724. No. 725. No. 726. No. 727. No. 728.

**No. 724**—Plain ..... Per dozen, $0 75
**No. 725**—Single reverse ..... " 1 00
**No. 726**—Double " ..... " 1.30
**No. 727**—Breech loading, small ..... " 2.00
**No. 728**— " " large ..... " 2.00
**No. 576**—Assorted ..... Per gross, 3.00

## TUMBLER PINS.

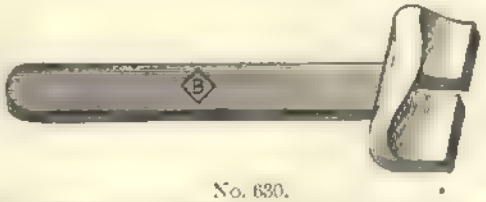
No. 576.

## ROD TIPS.

No. 515. No. 516. No. 517. No. 519 No. 520

**No. 515**—Single, solid brass, ½ in ..... Per dozen, $1 00
**No. 516**— " " " ⅝ " ..... " 1 00
**No. 517**— " " " ¾ " ..... " 1 00
**No. 518**—Single, open brass, ½ in ..... Per dozen, $0.80
**No. 519**— " " " ⅝ " ..... " .80
**No. 520**— " " " ¾ " ..... " .80

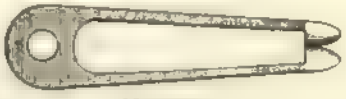
## BREECH LOADING FORE-END IRONS.



No. 630. No. 631

**No. 630**—Forged and machined ..... Per dozen, $12 00
**No. 631**— " ..... " 12.00

## FORE-END CATCH



No. 653.

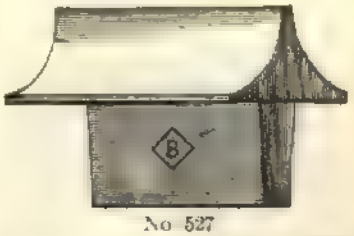
**No. 653**—Fore-end catch ..... Per dozen, $3.00

## GUN BOLT.

No. 574

**No. 574**—Stamped, double ..... Per dozen, $0.60

## LOOPS.

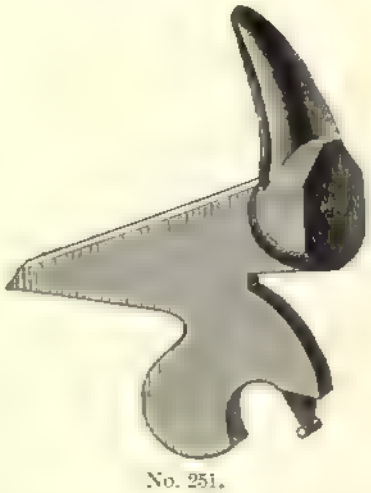


No. 525. No. 526. No. 527

**No. 525**—Muzzle loading ..... Per dozen, $0 75
**No. 526**—Cast, breech loading ..... " 1 00
**No. 527**—Forged, " " ..... " 3.50

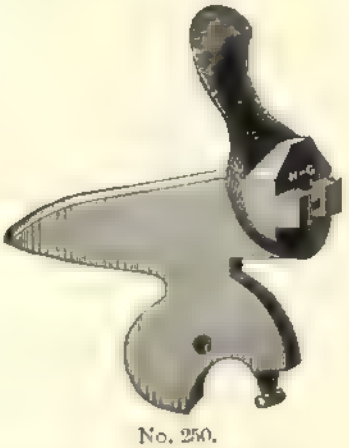
# FLOBERT RIFLE PARTS.

## HAMMERS.



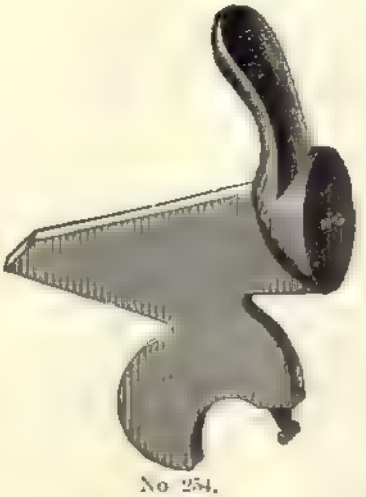
No. 251.

**No. 251**—Plain action.....Per dozen, $6.00



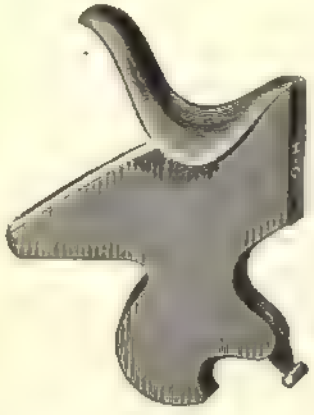
No. 250.

**No. 250**—Plain action with extractor .....Per dozen, $7.50



No. 254.

**No. 254**—Warnant action.....Per dozen, $6.00

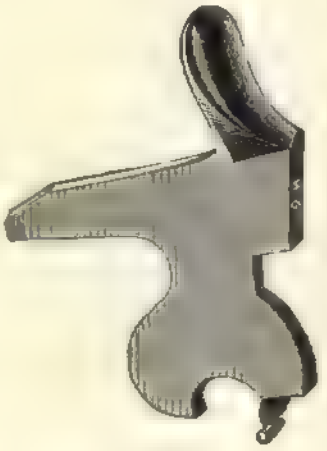


No. 253.

**No. 253**—Remington action, straight nose.....Per dozen, $6.00

No. 252.

**No. 252**—Remington action, cut nose.....Per dozen, $6.00



No. 254½

**No. 254½**—Warrant action, improved made.....Per dozen, $6.00

## EXTRACTORS.

No. 260.

**No. 260**—Warnant action.....Per dozen, $3.60

**No. 256**—Plain side action.....  "  2.40

No. 256.

No. 257.

**No. 257**—Remington action.....Per dozen, $2.40

No. 155.

**No. 155**—Plain hook.....  "  3.60

PACIFIC HARDWARE & STEEL COMPANY

# Lumbering Tools.

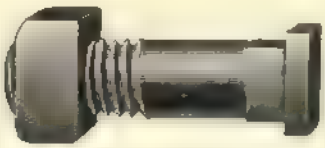
## Peavey Hook.

**Duck Bill**—Weight per Dozen, 30 lbs .. ..... Per Dozen, $11 00

## Cant Hook with Clasp and Bolt.

**Duck Bill**—Weight per Dozen, 40 lbs ... . ..... Per Dozen, $16 00

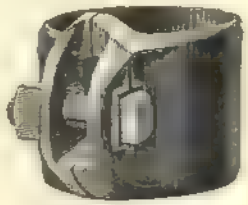
## Cant Hook and Peavey Bolt.



Norway Iron.

**1⅝×⅜ in.**—Weight per 100, 20 lbs . Per 100 $6 75

## Cant Hook Clasp and Bolt.



Malleable Iron.

**2½ in.** Weight per Dozen, 10 lbs. Per Dozen, $5 00

## Cant Hook and Peavey Handles.

### Hard Maple.

| **Length,** feet ..... | **4½** | **5** | **5½** | **6** |
|---|---|---|---|---|
| 2½ in. Diameter.....Per Dozen, | $5 00 | 5 50 | 6 00 | 6 50 |
| 2¾ " " .... " " | 5 50 | 6 00 | 6 50 | 7 00 |
| 3 " " .... " " | 6 00 | 6 50 | 7 00 | 7 50 |

### Queen City Extra Selected Maple.

| **Length,** feet ..... | **4½** | **5** | **5½** | **6** |
|---|---|---|---|---|
| 2½ in. Diameter.....Per Dozen, | $6 00 | 6 50 | 7 00 | 7 50 |
| 2¾ " " ..... " " | 7 00 | 7 50 | 8 00 | 8 50 |
| 3 " " ..... " " | 8 50 | 9 00 | 9 50 | 10 00 |

### Select Hickory, Oiled.

| **Length,** feet ..... ..... | **4½** | **5** | **5½** | **6** |
|---|---|---|---|---|
| 2½ in. Diameter.....Per Dozen, | $7 00 | 7 50 | 8 00 | 8 50 |
| 2¾ " " ..... " " | 8 00 | 8 50 | 9 00 | 9 50 |
| 3 " " ..... " " | 9 50 | 10 00 | 10 50 | 11 00 |

### Weight of Handles.

| | Maple. | | | | | Hickory. | | | |
|---|---|---|---|---|---|---|---|---|---|
| **Length,** feet ..... | **4½** | **5** | **5½** | **6** | **Length,** feet ..... | **4½** | **5** | **5½** | **6** |
| 2½ in. Diam., lbs ..... | 50 | 55 | 60 | 68 | 2½ in. Diam., lbs ..... | 55 | 60 | 66 | 74 |
| 2¾ " " " ..... | 64 | 69 | 74 | 82 | 2¾ " " " ..... | 70 | 76 | 82 | 90 |
| 3 " " " ..... | 72 | 78 | 83 | 92 | 3 " " " ..... | 78 | 84 | 91 | 98 |

One Dozen in a Bundle.

# Lumbering Tools.

## Pike Poles with Pike.

Nos. 70 to 74

Tool Steel Pikes, Second Growth Ash Poles.

| Nos. | 70 | 71 | 72 | 73 | 74 |
|---|---|---|---|---|---|
| Length, feet | 12 | 14 | 16 | 18 | 20 |
| Wt. per Doz., lbs. | 90 | 95 | 105 | 120 | 135 |
| Per Dozen | $17 50 | 19 50 | 23 00 | 28 00 | 35 00 |

## Pike Poles with Pike and Hook.

Nos. 91 to 95

Tool Steel Pikes, Second Growth Ash Poles.

| Nos. | 91 | 92 | 93 | 94 | 95 |
|---|---|---|---|---|---|
| Length, feet | 12 | 14 | 16 | 18 | 20 |
| Wt. per Doz., lbs. | 95 | 100 | 110 | 125 | 140 |
| Per Dozen | $20 00 | 22 00 | 25 50 | 30 50 | 37 50 |

## Pike Pole Handles.

Second Growth Ash.

| Length, feet | 12 | 14 | 16 | 18 | 20 |
|---|---|---|---|---|---|
| Weight per Dozen, lbs | 75 | 80 | 85 | 90 | 96 |
| Per Dozen | $11 00 | 12 00 | 15 00 | 17 00 | 19 00 |

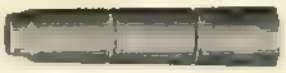
## Pike Pole Pikes.

No. 248.

## Pikes and Hooks.

No. 251

## Pike Pole Ferrules.



No. 253.

Pike Pole Pikes.

**No. 248**—Pikes Only, Weight per Dozen, 10 lbs ..... Per Dozen, $7 00

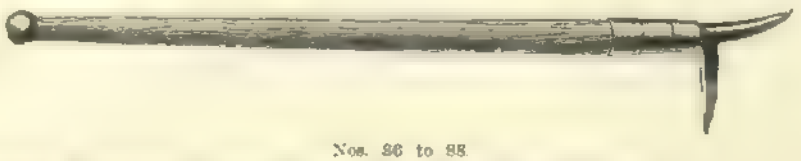
Pike Pole Pikes and Hooks.

**No. 251** Pickaroon Pikes or Pike and Hook, Weight per Dozen, 12 lbs . . . Per Dozen, $8 00

Pike Pole Ferrules.

**No. 253**—Seamless Polished Steel, 3 in a Set, Weight per Dozen Sets, 5 lbs . . . Per Dozen Sets, $4 00

## Pickaroons.



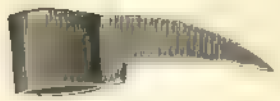
Nos. 86 to 88

**No. 86**—18 in. Ash Handles, Pikes and Hooks Forged from One Piece of Steel. . . . . Per Dozen, $12 00
**No. 87**—24 " " " " " " " " " " " " " " " " " " 12 75
**No. 88**—36 " " " " " " " " " " " " " " " " " " 13 75
Extra Pikes for Pickaroons, Tool Steel . . . . . " " 6 00

# Lumbering Tools.

## Hookaroon Picks.

Unhandled.



No. 122.

**Oval Eye**—Not Handled, Weight per Dozen, 15 lbs . . . . . Per Dozen, $6 00
**Axe Eye**—Not Handled, Weight per Dozen, 15 lbs . . . . . Per Dozen, 6 00

Handled.

No. 69A.

Oval Eye and Axe Eye.

**24 in.**—Hickory Handles . . . . Per Dozen, $12 50
**30 in.** " " . . . . . " " 13 50
**36 in.** " " . . . . . " " 15 00

## Rafting Dogs.

Eye.

**½ in.**—Iron, 5 in. Long, 1¼ in. Eye, Weight per Dozen, 9½ lbs. . . . . Per Dozen, $1 50
**⅝ in.**—Iron, 6 in. Long, 1¼ in Eye, Weight per Dozen, 15½ lbs . . Per Dozen, 2 25

Ring.

**1 in.**—Square Iron, 6 in. Long, 3 in. Ring, Weight per Dozen, 22 lbs. . Per Dozen, $2 50

## Swamping Hooks.

**Octagon, Crucible Steel, Norway Iron Grab Hooks and Rings.**

**No. 127**—1 in., Weight per Dozen, 100 lbs., . . . . . Per Dozen, $36 00
**No. 128**—1⅛ in., Weight per Dozen, 115 lbs., . . . . . Per Dozen, 42 00
**No. 129**—1¼ in., Weight per Dozen, 125 lbs., . . . . . Per Dozen, 48 00

## Logging Hooks.

Heavy, Cast Steel.

| **Size,** inch . . . . . | 2×⅝ | 2×¾ | 2·⅞ | 2½·1 |
|---|---|---|---|---|
| Weight per Dozen, lbs. | 60 | 72 | 80 | 90 |
| Per Dozen, . . . . . | $18 00 | 21 00 | 24 00 | 27 00 |

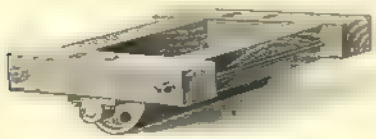
# Lumbering Tools.

## Timber Carrier or Lug Hook.

This Tool is Designed especially for Use in Mills, Lumber Yards or in Rai road Construction, for Handling Railroad Ties, Telegraph Poles, Square and all other Shaped Timbers. It will also be found useful in Bridge, Boat and House Building or wherever Timbers are Handled.

**Timber Carrier or Lug Hook**—Hard Maple Handles, 2½ in by 44 in. Long, Crucible Steel Hooks, Weight Net per Dozen, 45 lbs., ..... Per Dozen, $36 00

Half Dozen in a Bundle



No. 367.

## Timber Dolly.

Has Heavy Cast Iron Roller 10½ inches Long, 6 inch Diameter; Steel Axle; 17x19 inch Frame of 2½ inch Square Hardwood Timber.

**No. 367**—Weight Each, 60 lbs..... .....Each, $8 50

## Skidding Tongs.

Crucible Cast Steel.

**No. 114**—1¾ in. Oct., Opens 44 to 48 in., Weight Each, 75 lbs., ..... Each, $3 00

**No. 115**—2 in Oct., Opens 56 to 60 in., Weight Each, 110 lbs., ..... Each, $4 50

## Chopping Board Iron.

Has a Sharp Edge to Catch on Tree.

Plow Steel.

**Flat**—6X9 in., Weight per Dozen, 40 lbs.....Per Dozen, $12 00

## Barking Iron.

Cast Steel.

1 in.—Round, 44 in. Long, Weight per Dozen, 140 lbs. ..... .....Per Dozen, $42 00

# Lumbering Tools, Etc.

## Boot Calks.

Extra Small Ball. Small Ball. Medium Ball. Large Ball.

No. 00. No. 1. No. 0. No. 2.

| | | | | | |
|---|---|---|---|---|---|
| **Nos** | **000** | **00** | **0** | **1** | **2** |
| Weight per Thousand, lbs | 3 | 3½ | 4 | 5 | 6 |
| Per Thousand | $5 00 | 5 00 | 6 00 | 7 00 | 8 00 |

One Hundred in a Paper Box. One Thousand in a Package.

## Calk Set.

**Common**—Cast Steel, Weight per Dozen, 2 lbs ..... Per Dozen, $2 50

One Dozen in a Box.

## Calk Set and Punch.

**Combined**—Cast Steel, Weight per Dozen, 2½ lbs ..... Per Dozen, $3 50

One Dozen in a Box.

## Maul or Beetle Rings.

Wrought Iron.

| | | | | |
|---|---|---|---|---|
| **Inside Diameter**, inch | **4** | **4½** | **5** | **5½** |
| Weight per Pair, lbs | 4 | 4½ | 5 | 5½ |
| Per Pair | $0 30 | 0 35 | 0 45 | 0 60 |

## Maul Handles.

Cast Steel.

**1 in.**—Octagon, 29 in. Long, with Nut, Weight per Dozen, 90 lbs ..... Per Dozen, $42 00

## Grab Hooks.

## Round Chain Hooks.

## Cold Shuts.

### Grab Chain Hooks, Norway Iron.

| **Size,** inch | 5/16 | 3/8 | 7/16 | 1/2 | 5/8 |
|---|---|---|---|---|---|
| Weight per Dozen, lbs. | 9 | 14 | 20 | 24 | 35 |
| Per Dozen | $3 25 | 3 75 | 4 50 | 5 00 | 7 75 |

### Round Chain Hooks, Norway Iron.

| **Size,** inch | 5/16 | 3/8 | 1/2 | 5/8 |
|---|---|---|---|---|
| Weight per Dozen, lbs. | 12 | 15½ | 26 | 48 |
| Per Dozen | $2 75 | 3 25 | 4 50 | 7 00 |

### Cold Shuts.

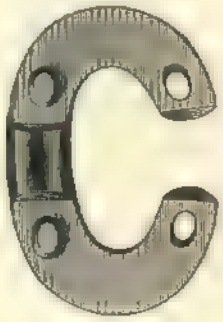
| **Size,** inch | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 |
|---|---|---|---|---|---|---|---|---|
| Weight per Hundred, lbs | 7 | 12 | 20 | 30 | 75 | 110 | 140 | 165 |
| Per 100 | $4 50 | 4 50 | 4 90 | 5 50 | 6 25 | 11 25 | 13 75 | 27 50 |

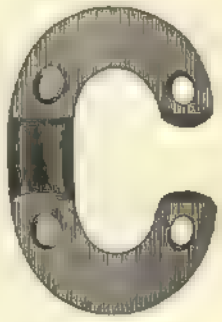
## Lap Links.

Wrought Iron.

## Thompson's Connecting Links.

Malleable Iron.





### Lap or Repair Links.

| **Size,** inch | 1/4×1¾ | 5/16×2 | 3/8×2¼ | 7/16×2½ | ½×3 | 9/16×3 | 5/8×3½ |
|---|---|---|---|---|---|---|---|
| Weight per Gross, lbs. | 10 | 17 | 29 | 56 | 64 | 78 | 100 |
| Per Gross | $4 50 | 5 50 | 7 50 | 11 00 | 14 50 | 17 00 | 20 00 |

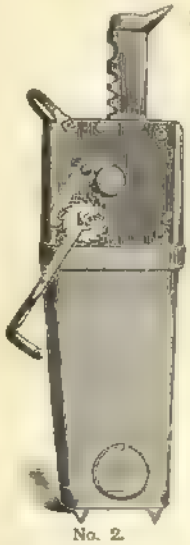
### Thompson's Connecting Links.

| **Size,** inch | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|
| Weight per Dozen, lbs. | 1½ | 2 | 3½ | 5 | 11 | 14 | 18 | 24 | 30 | 38 |
| Per Dozen | $2 00 | 2 20 | 2 40 | 2 60 | 2 80 | 3 20 | 3 50 | 4 80 | 7 50 | 10 00 |

Packed as Ordered.

# Logging Jacks.

## Dawson's.



No. 2.

**No. 2**—Forged and Milled Gearing, Weight Each, 58 lbs.....Each, $40 00

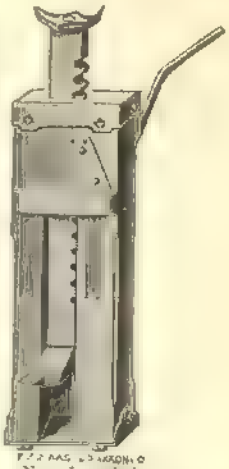
### Extra Parts.

| | | | | | |
|---|---|---|---|---|---|
| **Nos. 1 and 2**—Lift Bar ... | Each, | $9 00 | **Nos. 1 and 2**—Wood . . .. Each, | | $5 00 |
| **Nos. 1 and 2**—Small Pinion .... | " | 2 50 | **Nos. 1 and 2**—Pall ..... ..... | " | 50 |
| **Nos. 1 and 2**—Large " .... | " | 5 00 | **Nos. 1 and 2**—Ratchet ..... | " | 50 |
| **Nos. 1 and 2**—Bushings..... | " | 60 | **Nos. 1 and 2**—Guide and Roller, | " | 2 50 |
| **Nos. 1 and 2**—Rollers..... | " | 60 | **Nos. 1 and 2**—Roller and Bolt, | " | 75 |

### Forged Pinions.

| | | | | | |
|---|---|---|---|---|---|
| **No. 1**—Small.....Each, | | $4 50 | **No. 1**—Large .....Each, | | $8 00 |
| **No. 2** " ..... ..... | " | 5 00 | **No. 2**— " ..... | " | 9 00 |

## Garcin's.



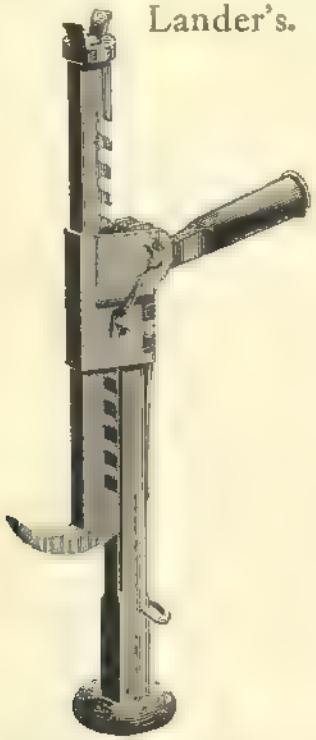
Nos. 1 and 2

**No. 1**—Weight Each, 50 lbs .. ... .... . .... . .. .. . ... . Each, $30 00
**No. 2** " " 55 " .. ... .. .... .. .. . . . . . " 40 00

### Extra Parts.

| | | | | | |
|---|---|---|---|---|---|
| **No. 1**—Gear .. ... .. .. .... . . ..Each, | | $8 00 | **No. 1**—Bar ... .. ..... ... . .. ... | Each, | $10 00 |
| **No. 2** " ... . .. . ... ... . | " | 9 00 | **No. 2** " ..... . ... . . | " | 12 00 |
| **No. 1**—Pinion..... | " | 4 50 | **Nos. 1 and 2**—Ratchet .... . . .... .. ... | " | 50 |
| **No. 2** " ..... ..... | " | 5 00 | **Nos. 1 and 2**—Pall.... . ..... .... . . | " | 50 |

## Lander's.



**Hand Forged, Best Hammered Steel.**

**Lander's**—With Claw. Weight Each, 45 lbs .....Each, $20 00

## Hercules.

**Plow Steel Frame.**

**Hercules**—With Claw, Sides Riveted to Steel Standard, Weight Each, 55 lbs .... .....Each, $40 00

## Wagon Jacks.

**Lane's Steel.**

| | | | | | |
|---|---|---|---|---|---|
| **No. 1**—Capacity 900 lbs., Per Doz., | | | | | $15 00 |
| **No. 2** | " | 1,800 | " | " | " | 22 50 |
| **No. 3** | " | 4,000 | " | " | " | 50 00 |

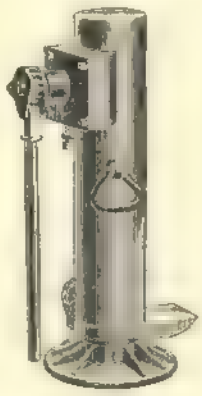
# Jacks.

## Bell Bottom.

| Diameter of Screw, Inch. | Height of Stand, Inch | Height Over All Inch | Lifting Capacity Tons | Weight Each, Pounds. | Each | Diameter of Screw Inch. | Height of Stand, Inch. | Height Over All, Inch. | Lifting Capacity Tons | Weight Each, Pounds. | Each. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| $1\frac{1}{2}$ | 4 | $6\frac{1}{2}$ | 12 | 10 | $3 25 | 2 | 12 | $15\frac{1}{4}$ | 20 | 34 | $7 50 |
| $1\frac{1}{2}$ | 10 | $12\frac{1}{2}$ | 12 | 17 | 4 75 | 2 | 14 | $17\frac{1}{4}$ | 20 | 38 | 8 25 |
| $1\frac{1}{2}$ | 12 | $14\frac{1}{2}$ | 12 | 21 | 5 25 | 2 | 16 | $19\frac{1}{4}$ | 20 | 41 | 9 25 |
| $1\frac{1}{2}$ | 14 | $16\frac{1}{2}$ | 12 | 24 | 6 00 | 2 | 18 | $21\frac{1}{4}$ | 20 | 45 | 10 25 |
| $1\frac{3}{4}$ | 12 | $14\frac{3}{4}$ | 16 | 25 | 6 25 | $2\frac{1}{2}$ | 6 | 10 | 28 | 30 | 7 75 |
| $1\frac{3}{4}$ | 14 | $16\frac{3}{4}$ | 16 | 31 | 6 75 | $2\frac{1}{2}$ | 14 | 18 | 28 | 42 | 12 00 |
| $1\frac{3}{4}$ | 16 | $18\frac{3}{4}$ | 16 | 39 | 7 50 | $2\frac{1}{2}$ | 16 | 20 | 28 | 57 | 13 25 |
| 2 | 6 | $9\frac{1}{4}$ | 20 | 20 | 5 25 | $2\frac{1}{2}$ | 18 | 22 | 28 | 68 | 14 50 |

## Norton's.

Style N. J.



Style F.

### Style N. J.

| Capacity | Height Over All. | Height of Foot from Ground | Rise. | Size of Base. | Weight. | Each |
|---|---|---|---|---|---|---|
| 10 tons. | 20 in. | 3 in. | 10 in. | 8 in | 60 lbs | $24 00 |

### Style F. Double Speed.

| Capacity. | Height Over All. | Rise. | Diameter of Base. | Weight. | Each. |
|---|---|---|---|---|---|
| 15 tons. | 24 in. | 10 in. | 10 in. | 115 lbs. | $60 00 |

## Hydraulic.

### Watson & Stillman's.

### With Claw.

| Capacity Tons | Height Inch | Rise Inch | Claw, Inch | Weight Each, lbs | Each. |
|---|---|---|---|---|---|
| 4 | 25 | 12 | $4\frac{1}{4}$ | 58 | $58 00 |
| 7 | 25 | 12 | $4\frac{1}{2}$ | 86 | 68 00 |
| 7 | $31\frac{1}{2}$ | 16 | $4\frac{1}{2}$ | 102 | 70 00 |
| 10 | $25\frac{1}{2}$ | 12 | $5\frac{3}{4}$ | 117 | 80 00 |
| 10 | 32 | 18 | $5\frac{3}{4}$ | 142 | 90 00 |
| 15 | $25\frac{1}{2}$ | 12 | $6\frac{1}{2}$ | 153 | 120 00 |
| 20 | $25\frac{1}{2}$ | 12 | 6 | 185 | 160 00 |

# LOADED SHOTGUN SHELLS.

## PRAIRIE.

Specially Loaded with High Grade Black Sporting Powder.

### 10 GAUGE.

| Code. | No. | Grams | Oz. | Size Shot | Per 1000. |
|---|---|---|---|---|---|
| Gad | 114 | 4 | 1⅛ | 4 | |
| Gaff | 115 | 4 | 1⅛ | 5 | |
| Gain | 116 | 4 | 1⅛ | 6 | |
| Gait | 117 | 4 | 1⅛ | 7 | $25 50 |
| Gale | 118 | 4 | 1⅛ | 8 | |
| Gallop | 119 | 4 | 1¼ | 9 | |
| Gear | 121 | 4¼ | 1⅛ | 4 | |
| Gem | 122 | 4¼ | 1⅛ | 5 | |
| Gender | 123 | 4¼ | 1¼ | 6 | |
| General | 124 | 4¼ | 1⅛ | 4 | |
| Genius | 125 | 4¼ | 1⅛ | 5 | 25 00 |
| Gentile | 126 | 4¼ | 1⅛ | 6 | |
| Genus | 127 | 4¼ | 1⅛ | 7 | |
| Get | 128 | 4¼ | 1⅛ | 8 | |
| Giant | 134 | 4½ | 1¼ | 4 | |
| Gib | 135 | 4½ | 1¼ | 5 | |
| Gift | 136 | 4½ | 1¼ | 6 | 26 30 |
| Gig | 137 | 4½ | 1¼ | 7 | |
| Gill | 138 | 4½ | 1¼ | 8 | |
| Gilt | 100 | 4½ | 1⅛ | BB | 27.80 |
| Grab | 141 | 4½ | 1⅛ | 1 | |
| Grace | 142 | 4½ | 1⅛ | 2 | |
| Grade | 143 | 4½ | 1⅛ | 3 | |
| Grain | 144 | 4½ | 1⅛ | 4 | |
| Grand | 145 | 4½ | 1⅛ | 5 | 27.20 |
| Grape | 146 | 4½ | 1⅛ | 6 | |
| Grave | 147 | 4½ | 1⅛ | 7 | |
| Gray | 148 | 4½ | 1⅛ | 8 | |
| Grass | 149 | 4½ | 1¼ | BB | 28.70 |
| Grease | 150 | | | Buck | 30 00 |

### 12 GAUGE.

| | | | | | |
|---|---|---|---|---|---|
| Abbey | 216 | 3 | 1 | 6 | |
| Abduct | 217 | 3 | 1 | 7 | |
| Abhor | 218 | 3 | 1 | 8 | $22 20 |
| Abide | 219 | 3 | 1 | 9 | |
| Ablaze | 220 | 3 | 1 | 10 | |
| Admit | 284 | 3¼ | 1 | 4 | |
| Adore | 285 | 3¼ | 1 | 5 | |
| Adrift | 286 | 3¼ | 1 | 6 | 22.50 |
| Adult | 287 | 3¼ | 1 | 7 | |
| Advance | 288 | 3¼ | 1 | 8 | |
| Aground | 232 | 3⅜ | 1⅛ | 2 | |
| Abode | 233 | 3⅜ | 1⅛ | 3 | |
| Abound | 234 | 3⅜ | 1⅛ | 4 | 23.30 |
| About | 235 | 3⅜ | 1⅛ | 5 | |

### 12 GAUGE.

| Code | No. | Grams | Oz. | Size Shot | Per 1000. |
|---|---|---|---|---|---|
| Above | 236 | 3¼ | 1⅛ | 6 | |
| Abreast | 237 | 3¼ | 1⅛ | 7 | |
| Abscn | 238 | 3¼ | 1⅛ | 8 | $23 30 |
| Absorve | 239 | 3¼ | 1⅛ | 9 | |
| Abstain | 240 | 3¼ | 1¼ | 10 | |
| Acid | 284 | 3½ | 1 | 4 | |
| Answer | 295 | 3½ | 1 | 5 | |
| Ant | 296 | 3½ | 1 | 6 | 22.80 |
| Ape | 297 | 3½ | 1 | 7 | |
| Aval | 298 | 3½ | 1 | 8 | |
| Arrow | ..... | ..... | ..... | Buck | 28 00 |
| Abstract | 251 | 3½ | 1⅛ | 1 | |
| Absurd | 252 | 3½ | 1⅛ | 2 | |
| Abuse | 253 | 3½ | 1⅛ | 3 | |
| Abyss | 254 | 3½ | 1⅛ | 4 | |
| Ace | 255 | 3½ | 1⅛ | 5 | 23 70 |
| Acid | 256 | 3½ | 1⅛ | 6 | |
| Acme | 257 | 3½ | 1⅛ | 7 | |
| Acquit | 258 | 3½ | 1⅛ | 8 | |
| Act | 259 | 3½ | 1⅛ | 9 | |
| Acute | 260 | 3½ | 1⅛ | 10 | |
| Adam | 200 | 3¼ | 1¼ | BB | 25.20 |
| Adapt | 271 | 4 | 1⅛ | 1 | |
| Adhere | 272 | 4 | 1⅛ | 2 | |
| Adjure | 273 | 4 | 1⅛ | 3 | 24.50 |
| Adjust | 274 | 4 | 1⅛ | 4 | |
| Admire | 275 | 4 | 1⅛ | 5 | |
| Admiral | 276 | 4 | 1⅛ | 6 | |

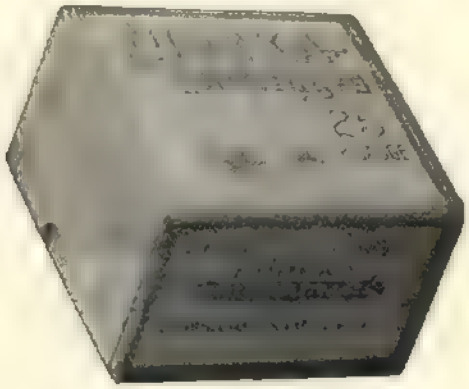
### 16 GAUGE.

| | | | | | |
|---|---|---|---|---|---|
| Cade | 616 | 2¾ | ⅞ | 4 | |
| Face | 617 | 2¾ | ⅞ | 7 | $22.10 |
| Fad | 618 | 2¾ | ⅞ | 8 | |
| Fail | 619 | 2¾ | ⅞ | 9 | |
| Faint | 624 | 3 | ⅞ | 4 | |
| Fair | 625 | 3 | ⅞ | 5 | |
| Fake | 626 | 3 | ⅞ | 6 | 22.10 |
| Fall | 627 | 3 | ⅞ | 7 | |
| Fame | 628 | 3 | ⅞ | 8 | |
| Fan | 633 | 3 | 1 | 3 | |
| Far | 634 | 3 | 1 | 4 | |
| Farm | 635 | 3 | 1 | 5 | 23.00 |
| Fast | 636 | 3 | 1 | 6 | |
| Fault | 637 | 3 | 1 | 7 | |
| Faun | 638 | 3 | 1 | 8 | |

All above loads in stock and can be shipped promptly. Other loads to order only. For chilled shot add $1.50 per 1000.
No **orders** for **special** loads accepted for less than 500 cartridges, one gauge, and not less than 250 any size shot.
When Blue Rival Shells are specified, add $3.00 per 1000 to list. 25 in box; 500 in case.

# LOADED SHOTGUN SHELLS.

## EUREKA.



Loaded with Black Powder by the California Powder Works.

### 10 GAUGE

| Code | No | Drams | Oz | Size Shot | Per 100 |
|---|---|---|---|---|---|
| Comet | 204 | 4 | 1 1/8 | 4 | |
| Cone | 205 | 4 | 1 1/8 | 5 | |
| Copal | 206 | 4 | 1 1/8 | 6 | $25 50 |
| Crayon | 207 | 4 | 1 1/8 | 7 | |
| Cream | 208 | 4 | 1 1/8 | 8 | |
| Crib | 209 | 4 | 1 1/8 | 9 | |
| Critic | 299 | 4 1/2 | 1 1/8 | BB | 27 80 |
| Crisis | 300 | 4 1/2 | 1 1/8 | B | |
| Cure | 303 | 4 1/2 | 1 1/8 | 3 | |
| Cute | 304 | 4 1/2 | 1 1/8 | 4 | |
| Daisy | 305 | 4 1/2 | 1 1/8 | 5 | 26 80 |
| Damp | 306 | 4 1/2 | 1 1/8 | 6 | |
| Dark | 307 | 4 1/2 | 1 1/8 | 7 | |
| Dawn | 308 | 4 1/2 | 1 1/8 | 8 | |
| Deaf | 400 | 4 1/2 | 1 1/4 | BB | 28.70 |
| Debut | 401 | 4 1/2 | 1 1/4 | 1 | |
| Deck | 402 | 4 1/2 | 1 1/4 | 2 | |
| Deer | 403 | 4 1/2 | 1 1/4 | 3 | 27 20 |
| Devil | 404 | 4 1/2 | 1 1/4 | 4 | |
| Dew | 405 | 4 1/2 | 1 1/4 | 5 | |
| Dial | 406 | 4 1/2 | 1 1/4 | 6 | |
| Dory | 501 | 4 1/4 | 1 1/8 | 1 | |
| Daring | 502 | 4 1/4 | 1 1/8 | 2 | |
| Dizzy | 503 | 4 1/4 | 1 1/8 | 3 | |
| Dig | 504 | 4 1/4 | 1 1/8 | 4 | 25 90 |
| Dim | 505 | 4 1/4 | 1 1/8 | 5 | |
| Dime | 506 | 4 1/4 | 1 1/8 | 6 | |
| Dirt | 507 | 4 1/4 | 1 1/8 | 7 | |
| Dish | 508 | 4 1/4 | 1 1/8 | 8 | |
| Quack | | | | Buck | 30 00 |

### 12 GAUGE

| Code | No | Drams | Oz | Size Shot | Per 1000. |
|---|---|---|---|---|---|
| Bazaar | 319 | 3 1/2 | 1 1/8 | BB | $25 20 |
| Bicycle | 320 | 3 1/2 | 1 1/8 | B | |
| Birth | 321 | 3 1/2 | 1 1/8 | 1 | |
| Bison | 322 | 3 1/2 | 1 1/8 | 2 | |
| Birch | 323 | 3 1/2 | 1 1/8 | 3 | |
| Blade | 324 | 3 1/2 | 1 1/8 | 4 | |
| Blast | 325 | 3 1/2 | 1 1/8 | 5 | 23 70 |
| Blend | 326 | 3 1/2 | 1 1/8 | 6 | |
| Block | 327 | 3 1/2 | 1 1/8 | 7 | |
| Blouse | 328 | 3 1/2 | 1 1/8 | 8 | |
| Boat | 329 | 3 1/2 | 1 1/8 | 9 | |
| Bodice | 330 | 3 1/2 | 1 1/8 | 10 | |
| Bone | 420 | 4 | 1 1/8 | BB | 26.00 |
| Bosom | 421 | 4 | 1 1/8 | 1 | |
| Bonnet | 422 | 4 | 1 1/8 | 2 | |
| Bower | 423 | 4 | 1 1/8 | 3 | 24.50 |
| Brig | 424 | 4 | 1 1/8 | 4 | |
| Brogan | 425 | 4 | 1 1/8 | 5 | |
| Brush | 426 | 4 | 1 1/8 | 6 | |
| Bustle | 524 | 3 1/2 | 1 | 4 | |
| Cabin | 525 | 3 1/2 | 1 | 5 | |
| Cactus | 526 | 3 1/2 | 1 | 6 | 22 80 |
| Cadet | 527 | 3 1/2 | 1 | 7 | |
| Cage | 528 | 3 1/2 | 1 | 8 | |
| Cart | 724 | 3 1/4 | 1 | 4 | |
| Cedar | 725 | 3 1/4 | 1 | 5 | |
| Chain | 726 | 3 1/4 | 1 | 6 | 22 50 |
| Chalk | 727 | 3 1/4 | 1 | 7 | |
| Chap | 728 | 3 1/4 | 1 | 8 | |
| Chew | 729 | 3 1/4 | 1 | 9 | |
| Camp | | | | Buck | 28 00 |

### 12 GAUGE

| Code | No | Drams | Oz | Size Shot | Per 100 |
|---|---|---|---|---|---|
| Baker | 127 | 3 | 1 | 7 | |
| Ballad | 128 | 3 | 1 | 8 | $22 20 |
| Band | 129 | 3 | 1 | 9 | |
| Bush | 130 | 3 | 1 | 10 | |
| Barn | 224 | 3 1/4 | 1 1/8 | 4 | |
| Beach | 225 | 3 1/4 | 1 1/8 | 5 | |
| Bear | 226 | 3 1/4 | 1 1/8 | 6 | |
| Beast | 227 | 3 1/4 | 1 1/8 | 7 | 23 80 |
| Beaver | 228 | 3 1/4 | 1 1/8 | 8 | |
| Bed | 229 | 3 1/4 | 1 1/8 | 9 | |
| Bevel | 230 | 3 1/4 | 1 1/8 | 10 | |

### 16 GAUGE

| Code | No | Drams | Oz | Size Shot | Per 100 |
|---|---|---|---|---|---|
| Dram | 166 | 3 | 1 | 6 | |
| Ducat | 167 | 3 | 1 | 7 | $23.00 |
| Duck | 168 | 3 | 1 | 8 | |
| Dyer | 268 | 2 1/4 | 7/8 | 8 | |
| Far | 269 | 2 1/4 | 7/8 | 9 | 22 10 |
| Echo | 364 | 3 | 7/8 | 4 | |
| Eden | 365 | 3 | 7/8 | 5 | |
| Fagar | 366 | 3 | 7/8 | 6 | 22 10 |
| Faith | 367 | 3 | 7/8 | 7 | |
| Edna | 368 | 3 | 7/8 | 8 | |

Kindly order by Load Numbers. Chilled shot add $1.50 per 1000.
No orders for special loads accepted for less than 500 cartridges, one gauge, and not less than 250 any size shot.
When Blue Rival Shells are specified, add $3.00 per 1000 to list. 25 in box; 500 in case.

# LOADED SHOTGUN SHELLS.

## WALSRODE LEADER, SMOKELESS.

Loaded with Walsrode Powder and Special Wadding in Reinforced High Base Shells.

### 10 GAUGE

| Code | No. | Grains | Oz. | Size Shot. | Per 1000. |
|---|---|---|---|---|---|
| Cheat | 2010 | 38 | 1¼ | BB | $46.60 |
| Check | 2011 | 38 | 1⅛ | 1 | |
| Cheer | 2012 | 38 | 1⅛ | 2 | |
| Cheese | 2013 | 38 | 1⅛ | 3 | |
| Chemist | 2014 | 38 | 1⅛ | 4 | 45.10 |
| Cherry | 2015 | 38 | 1⅛ | 5 | |
| Cherub | 2016 | 38 | 1⅛ | 6 | |
| Chew | 2017 | 38 | 1⅛ | 7 | |
| Chicken | 2018 | 38 | 1⅛ | 8 | |
| Chorus | 2030 | 40 | 1¼ | Buck | 50.00 |
| Chicory | 2020 | 40 | 1¼ | BB | 48.50 |
| Chief | 2021 | 40 | 1¼ | 1 | |
| Child | 2022 | 40 | 1¼ | 2 | |
| Chill | 2023 | 40 | 1¼ | 3 | |
| Chin | 2024 | 40 | 1¼ | 4 | 47.00 |
| China | 2025 | 40 | 1¼ | 5 | |
| Chink | 2026 | 40 | 1¼ | 6 | |
| Chirp | 2027 | 40 | 1¼ | 7 | |
| Chloral | 2028 | 40 | 1¼ | 8 | |

### 12 GAUGE.

| | | | | | |
|---|---|---|---|---|---|
| Deceit | 2200 | 30 | 1 | BB | $39.50 |
| Decide | 2201 | 30 | 1 | 1 | |
| Decree | 2202 | 30 | 1 | 2 | |
| Decry | 2203 | 30 | 1 | 3 | |
| Deduce | 2204 | 30 | 1 | 4 | |
| Deem | 2205 | 30 | 1 | 5 | 38.00 |
| Deep | 2206 | 30 | 1 | 6 | |
| Deer | 2207 | 30 | 1 | 7 | |
| Defame | 2208 | 30 | 1 | 8 | |
| Default | 2209 | 30 | 1 | 9 | |

### 12 GAUGE.

| Code | No. | Grains. | Oz. | Size Shot. | Per 1000. |
|---|---|---|---|---|---|
| Defill | 2210 | 30 | 1⅛ | BB | $40.40 |
| Deform | 2211 | 30 | 1⅛ | 1 | |
| Defraud | 2212 | 30 | 1⅛ | 2 | |
| Defray | 2213 | 30 | 1⅛ | 3 | |
| Defy | 2214 | 30 | 1⅛ | 4 | |
| Degrade | 2215 | 30 | 1⅛ | 5 | 38.90 |
| Decide | 2216 | 30 | 1⅛ | 6 | |
| Deject | 2217 | 30 | 1⅛ | 7 | |
| Delight | 2218 | 30 | 1⅛ | 8 | |
| Deluge | 2219 | 30 | 1⅛ | 9 | |
| Endow | 2230 | 32 | 1⅛ | Buck | 44.00 |
| Elder | 2220 | 32 | 1⅛ | BB | 41.10 |
| Edge | 2221 | 32 | 1⅛ | 1 | |
| Eclipse | 2222 | 32 | 1⅛ | 2 | |
| Elm | 2223 | 32 | 1⅛ | 3 | |
| Elope | 2224 | 32 | 1⅛ | 4 | |
| Empty | 2225 | 32 | 1⅛ | 5 | 39.60 |
| Enact | 2226 | 32 | 1⅛ | 6 | |
| End | 2227 | 32 | 1⅛ | 7 | |
| Endear | 2228 | 32 | 1⅛ | 8 | |
| Ending | 2229 | 32 | 1⅛ | 9 | |

Special Trap Load 12 gauge, 32 grain, 1⅛ ounces, 7½ chilled shot .. 42.10

### 16 GAUGE.

| | | | | | |
|---|---|---|---|---|---|
| Endure | 2604 | 28 | ⅞ | 4 | |
| Enemy | 2605 | 28 | ⅞ | 5 | |
| Energy | 2606 | 28 | ⅞ | 6 | $37.50 |
| Entomb | 2607 | 28 | ⅞ | 7 | |
| Entry | 2608 | 28 | ⅞ | 8 | |
| Envoy | 2609 | 28 | ⅞ | 9 | |

Chilled Shot $1.50 per 1000 extra.

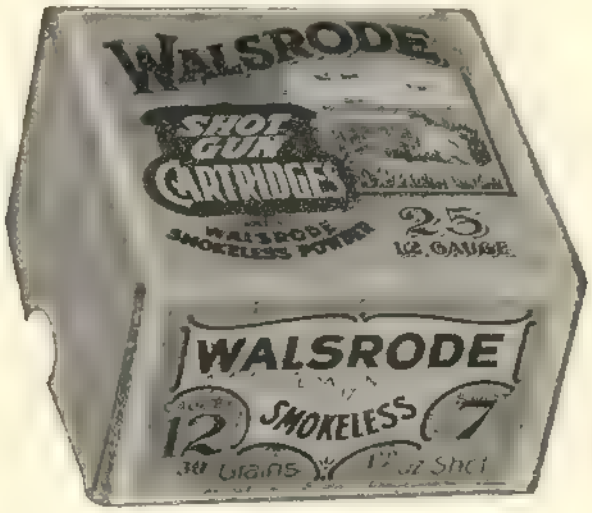
All above loads in stock and can be shipped promptly, other loads to order only.

No orders for special loads accepted for less than 500 cartridges, one gauge, and not less than 250 one size shot.

25 in box; 500 in case. Average weight per 1000, 130 lbs.

# LOADED SHOTGUN SHELLS

## WALSRODE, SMOKELESS.




### 10 GAUGE.

| Code | No. | Grains | Oz. | Size Shot. | Per 1000. |
|---|---|---|---|---|---|
| Spicy | 1010 | 38 | 1⅛ | BB | $38.10 |
| Spicer | 1011 | 38 | 1⅛ | 1 | 38.60 |
| Spied | 1012 | 38 | 1⅛ | 2 | |
| Spike | 1013 | 38 | 1⅛ | 3 | |
| Spine | 1014 | 38 | 1⅛ | 4 | |
| Spinal | 1015 | 38 | 1⅛ | 5 | |
| Spinet | 1016 | 38 | 1⅛ | 6 | |
| Spiny | 1017 | 38 | 1⅛ | 7 | |
| Spiral | 1018 | 38 | 1⅛ | 8 | |
| Spleen | 1000 | 40 | 1¼ | Buck | 42 00 |
| Spill | 1020 | 40 | 1¼ | BB | 40.00 |
| Spin | 1021 | 40 | 1¼ | 1 | 38.50 |
| Spoon | 1022 | 40 | 1¼ | 2 | |
| Spray | 1023 | 40 | 1¼ | 3 | |
| Spree | 1024 | 40 | 1¼ | 4 | |
| Spirit | 1025 | 40 | 1¼ | 5 | |
| Spirt | 1026 | 40 | 1¼ | 6 | |
| Spiry | 1027 | 40 | 1¼ | 7 | |
| Spit | 1028 | 40 | 1¼ | 8 | |

### 12 GAUGE

| Code | No. | Grains | Oz. | Size Shot. | Per 1000. |
|---|---|---|---|---|---|
| Rental | 1200 | 30 | 1 | BB | $33.00 |
| Repair | 1201 | 30 | 1 | 1 | 31.50 |
| Repress | 1202 | 30 | 1 | 2 | |
| Reply | 1203 | 30 | 1 | 3 | |
| Reply | 1204 | 30 | 1 | 4 | |
| Report | 1205 | 30 | 1 | 5 | |
| Repose | 1206 | 30 | 1 | 6 | |
| Reprint | 1207 | 30 | 1 | 7 | |
| Reproach | 1208 | 30 | 1 | 8 | |
| Reproof | 1209 | 30 | 1 | 9 | |

### 12 GAUGE

| Code. | No. | Grains. | Oz. | Size Shot. | Per 1000. |
|---|---|---|---|---|---|
| Repeat | 1210 | 30 | 1¼ | BB | $33 80 |
| Repel | 1211 | 30 | 1¼ | 1 | 32 30 |
| Repent | 1212 | 30 | 1¼ | 2 | |
| Repine | 1213 | 30 | 1¼ | 3 | |
| Reprove | 1214 | 30 | 1¼ | 4 | |
| Reptile | 1215 | 30 | 1¼ | 5 | |
| Repulse | 1216 | 30 | 1¼ | 6 | |
| Repute | 1217 | 30 | 1¼ | 7 | |
| Repugn | 1217½ | 30 | 1¼ | 7½ | |
| Request | 1218 | 30 | 1¼ | 8 | |
| Require | 1219 | 30 | 1¼ | 9 | |
| Revised | 1230 | 32 | 1⅛ | Buck | 38 00 |
| Resent | 1220 | 32 | 1⅛ | BB | 34 60 |
| Reserve | 1221 | 32 | 1⅛ | 1 | 33 10 |
| Reset | 1222 | 32 | 1⅛ | 2 | |
| Reside | 1223 | 32 | 1⅛ | 3 | |
| Requite | 1224 | 32 | 1⅛ | 4 | |
| Revel | 1225 | 32 | 1⅛ | 5 | |
| Revenge | 1226 | 32 | 1⅛ | 6 | |
| Reverse | 1227 | 32 | 1⅛ | 7 | |
| Revere | 1227½ | 32 | 1⅛ | 7½ | |
| Revert | 1228 | 32 | 1⅛ | 8 | |
| Review | 1229 | 32 | 1⅛ | 9 | |

### 16 GAUGE

| | | | | | |
|---|---|---|---|---|---|
| Pantry | 1604 | 28 | ⅞ | 4 | $30 00 |
| Paper | 1605 | 28 | ⅞ | 5 | |
| Papoose | 1606 | 28 | ⅞ | 6 | |
| Parcel | 1607 | 28 | ⅞ | 7 | |
| Pardon | 1608 | 28 | ⅞ | 8 | |
| Parent | 1609 | 28 | ⅞ | 9 | |

All above loads in stock and can be shipped promptly. Other loads to order only. For chilled shot add $1.50 per 1000.
No **orders** for **special** loads accepted for less than 500 cartridges, one gauge, and not less than 250 one size shot
25 in box; 500 in case. Average weight per 1000, 130 lbs.

# LOADED SHOTGUN SHELLS.

## NATIVE SON, SMOKELESS.

Loaded with C. P. W. Smokeless Powder, Hard Grain, by California Powder Works, which in quickness, cleanness and penetration surpasses all other nitro powders.

The loads have been selected with much care and are the result of exhaustive experiments, and will answer the demands of the trade and sporting fraternity.

PACIFIC HARDWARE & STEEL COMPANY

### 10 GAUGE

| Code. | No. | Drams | Oz. | Size Shot. | Per 1000. |
|---|---|---|---|---|---|
| Fig | 7499 | 4¼ | 1⅛ | B | $40.00 |
| Fish | 7500 | 4¼ | 1⅛ | BB | |
| Fester | 7501 | 4¼ | 1⅛ | 1 | $36.60 |
| Feuding | 7502 | 4¼ | 1⅛ | 2 | |
| Flight | 7503 | 4¼ | 1⅛ | 3 | |
| Frail | 7504 | 4¼ | 1⅛ | 4 | |
| Frank | 7505 | 4¼ | 1⅛ | 5 | |
| Fresco | 7506 | 4¼ | 1⅛ | 6 | |
| Friar | 7507 | 4¼ | 1⅛ | 7 | |
| Fringe | 7507½ | 4¼ | 1⅛ | 7½ | |
| Frog | 7508 | 4¼ | 1⅛ | 8 | |
| Frolic | 7509 | 4¼ | 1⅛ | 9 | |
| Fright | 7701 | 4¼ | 1¼ | 1 | $38.50 |
| Freeze | 7702 | 4¼ | 1¼ | 2 | |
| Freeas | 7703 | 4¼ | 1¼ | 3 | |
| Frost | 7704 | 4¼ | 1¼ | 4 | |
| Fruit | 7705 | 4¼ | 1¼ | 5 | |
| Fry | 7706 | 4¼ | 1¼ | 6 | |
| Fuse | 7707 | 4¼ | 1¼ | 7 | |
| Fume | 7707½ | 4¼ | 1¼ | 7½ | |
| Fur | 7708 | 4¼ | 1¼ | 8 | |
| Gable | 7709 | 4¼ | 1¼ | 9 | |
| Grade | 7801 | 4½ | 1¼ | 1 | $39.70 |
| Grain | 7802 | 4½ | 1¼ | 2 | |
| Grape | 7803 | 4½ | 1¼ | 3 | |
| Grasp | 7804 | 4½ | 1¼ | 4 | |
| Gravel | 7805 | 4½ | 1¼ | 5 | |
| Greek | 7806 | 4½ | 1¼ | 6 | |
| Grease | 7807 | 4½ | 1¼ | 7 | |
| Grass | 7808 | 4½ | 1¼ | 8 | |
| Grit | | | | Buck | 42.00 |

### 12 GAUGE

| Code. | No. | Drams. | Oz. | Size Shot. | Per 1000. |
|---|---|---|---|---|---|
| Elfin | 9126 | 3 | 1 | 6 | $31.50 |
| Elite | 9127 | 3 | 1 | 7 | |
| Eliza | 9127½ | 3 | 1 | 7½ | |
| Elk | 9128 | 3 | 1 | 8 | |
| Ella | 9129 | 3 | 1 | 9 | |
| East | 9130 | 3 | 1 | 10 | |
| Emery | 9424 | 3 | 1⅛ | 4 | $32.30 |
| Emily | 9425 | 3 | 1⅛ | 5 | |
| Emma | 9426 | 3 | 1⅛ | 6 | |
| Envy | 9427 | 3 | 1⅛ | 7 | |
| Epoch | 9427½ | 3 | 1⅛ | 7½ | |
| Ergot | 9428 | 3 | 1⅛ | 8 | |
| Ermine | 9429 | 3 | 1⅛ | 9 | |
| Errand | 9430 | 3 | 1⅛ | 10 | |

Gothic . . . . . with chilled shot

### 12 GAUGE

| Code. | No. | Drams. | Oz. | Size Shot. | Per 1000. |
|---|---|---|---|---|---|
| Western | 9324 | 3¼ | 1 | 4 | $32.30 |
| Whale | 9325 | 3¼ | 1 | 5 | |
| Whisper | 9326 | 3¼ | 1 | 6 | |
| Wicket | 9327 | 3¼ | 1 | 7 | |
| Widow | 9328 | 3¼ | 1 | 8 | |
| Wart | 9219 | 3¼ | 1⅛ | B | 34.60 |
| Weep | 9220 | 3¼ | 1⅛ | BB | |
| Wigwam | 9221 | 3¼ | 1⅛ | 1 | 33.10 |
| Escort | 9222 | 3¼ | 1⅛ | 2 | |
| Essay | 9223 | 3¼ | 1⅛ | 3 | |
| Esther | 9224 | 3¼ | 1⅛ | 4 | |
| Etch | 9225 | 3¼ | 1⅛ | 5 | |
| Ethel | 9226 | 3¼ | 1⅛ | 6 | |
| Eudora | 9227 | 3¼ | 1⅛ | 7 | |
| Eva | 9227½ | 3¼ | 1⅛ | 7½ | |
| Evade | 9228 | 3¼ | 1⅛ | 8 | |
| Event | 9229 | 3¼ | 1⅛ | 9 | |
| Evil | 9230 | 3¼ | 1⅛ | 10 | |
| Fagot | 9621 | 3¼ | 1¼ | 1 | $34.00 |
| Fair | 9622 | 3¼ | 1¼ | 2 | |
| Fake | 9623 | 3¼ | 1¼ | 3 | |
| Fanatic | 9624 | 3¼ | 1¼ | 4 | |
| Fanny | 9625 | 3¼ | 1¼ | 5 | |
| Farce | 9626 | 3¼ | 1¼ | 6 | |
| Farm | 9627 | 3¼ | 1¼ | 7 | |
| Faro | 9627½ | 3¼ | 1¼ | 7½ | |
| Fatal | 9628 | 3¼ | 1¼ | 8 | |
| Feast | 9629 | 3¼ | 1¼ | 9 | |
| Felon | 9630 | 3¼ | 1¼ | 10 | |
| Falcon | | | | Buck | 36.00 |
| Gospel | Inanimate Bird—40 grs. | | 1¼ | 7½ | 34.00 |

### 16 GAUGE

| Code. | No. | Drams. | Oz. | Size Shot. | Per 1000. |
|---|---|---|---|---|---|
| Gape | 9565 | 2½ | ⅞ | 5 | $28.50 |
| Gage | 9566 | 2½ | ⅞ | 6 | |
| Gait | 9567 | 2½ | ⅞ | 7 | |
| Game | 9567½ | 2½ | ⅞ | 7½ | |
| Gap | 9568 | 2½ | ⅞ | 8 | |
| Gem | 9569 | 2½ | ⅞ | 9 | |
| Genus | 9570 | 2½ | ⅞ | 10 | |
| Germ | 9664 | 2¾ | ⅞ | 4 | 30.00 |
| Giant | 9665 | 2¾ | ⅞ | 5 | |
| Gift | 9666 | 2¾ | ⅞ | 6 | |
| Glad | 9667 | 2¾ | ⅞ | 7 | |
| Globe | 9667½ | 2¾ | ⅞ | 7½ | |
| Goat | 9668 | 2¾ | ⅞ | 8 | |

Kindly order by Load Numbers. Shot loaded by weight unless otherwise specified. Prices for special loads will be proportioned to the additional cost of labor and material. For chilled shot add $1 50 per 1000.

No orders for special loads accepted for less than 500 cartridges, one gauge, and not less than 250 any size shot.

25 in box; 500 in case. Average weight per 1000, 130 lbs.

# LOADED SHOTGUN SHELLS.

## DIANA, SMOKELESS.

These are loaded in High Grade Outside Brass Reinforced Shells with C. P. W. Smokeless Shot Gun Powder Hard Grain.

### 10 GAUGE

| Code. | No. | Drams | Oz. | Size Shot | Per 100 |
|---|---|---|---|---|---|
| Jack | 3504 | 4¼ | 1⅛ | 4 | |
| Jail | 3505 | 4¼ | 1⅛ | 5 | |
| Jalap | 3506 | 4¼ | 1⅛ | 6 | |
| Jam | 3507 | 4¼ | 1⅛ | 7 | $41.60 |
| Jar | 3507½ | 4¼ | 1⅛ | 7½ | |
| Jelly | 3508 | 4¼ | 1⅛ | 8 | |
| Julep | 3509 | 4¼ | 1⅛ | 9 | |
| Jump | 3704 | 4⅛ | 1¼ | 4 | |
| Jungle | 3705 | 4⅛ | 1¼ | 5 | |
| Julian | 3706 | 4⅛ | 1¼ | 6 | |
| Junior | 3707 | 4⅛ | 1¼ | 7 | 43 50 |
| Jupiter | 3707½ | 4⅛ | 1¼ | 7½ | |
| Jurist | 3708 | 4⅛ | 1¼ | 8 | |
| Juror | 3709 | 4⅛ | 1¼ | 9 | |
| Justice | 3801 | 4½ | 1¼ | 4 | |
| Justify | 3802 | 4½ | 1¼ | 5 | |
| Jostle | 3803 | 4½ | 1¼ | 6 | |
| Jute | 3804 | 4½ | 1¼ | 4 | 44 50 |
| Judah | 3805 | 4½ | 1¼ | 5 | |
| Jaguar | 3806 | 4½ | 1¼ | 6 | |
| Juvenile | 3807 | 4½ | 1¼ | 7 | |
| Jacket | | | | Buck | 46 00 |

### 12 GAUGE

| | | | | | |
|---|---|---|---|---|---|
| Lotion | 3227 | 3 | 1 | 4 | |
| Lounge | 3227½ | 3 | 1 | 5 | $34 50 |
| Lover | 3228 | 3 | 1 | 6 | |
| Loyal | 3229 | 3 | 1 | 7 | |
| Log | 3236 | 3 | 1⅛ | 5 | |
| Lunar | 3237 | 3 | 1⅛ | 6 | 35 30 |
| Lung | 3237½ | 3 | 1⅛ | 7 | |
| Lurid | 3238 | 3 | 1⅛ | 8 | |
| Lusty | 3246 | 3¼ | 1 | 5 | |
| Lute | 3247 | 3¼ | 1 | 6 | |
| Lyceum | 3247½ | 3¼ | 1 | 7½ | 35 30 |
| Lynch | 3248 | 3¼ | 1 | 8 | |
| League | 3264 | 3¼ | 1⅛ | 4 | |
| Legacy | 3265 | 3¼ | 1⅛ | 5 | |
| Legion | 3266 | 3¼ | 1⅛ | 6 | |
| Lemon | 3267 | 3¼ | 1⅛ | 7 | 37 30 |
| Liver | 3267½ | 3¼ | 1⅛ | 7½ | |
| Lord | 3268 | 3¼ | 1⅛ | 8 | |

Gothic .....with chilled shot.

### 12 GAUGE.

| Code | No. | Drams | Oz. | Size Shot. | Per 1000. |
|---|---|---|---|---|---|
| Melody | 3254 | 3¼ | 1⅛ | 4 | |
| Melon | 3255 | 3¼ | 1⅛ | 5 | |
| Memoir | 3256 | 3¼ | 1⅛ | 6 | $36.10 |
| Mercy | 3257 | 3¼ | 1⅛ | 7 | |
| Mermo | 3257½ | 3¼ | 1⅛ | 7½ | |
| Meter | 3258 | 3¼ | 1⅛ | 8 | |
| Mantle | 3271 | 3 | 1⅛ | 1 | |
| Mansion | 3272 | 3 | 1⅛ | 2 | |
| Maple | 3273 | 3½ | 1⅛ | 3 | |
| Manner | 3274 | 3½ | 1⅛ | 4 | |
| Marmot | 3275 | 3½ | 1⅛ | 5 | 37 00 |
| Marry | 3276 | 3½ | 1⅛ | 6 | |
| Marsh | 3277 | 3½ | 1⅛ | 7 | |
| Marvel | 3277½ | 3½ | 1⅛ | 7½ | |
| Mash | 3278 | 3½ | 1⅛ | 8 | |
| Mace | 3281 | 3½ | 1¼ | 1 | |
| Machine | 3282 | 3½ | 1¼ | 2 | |
| Madam | 3283 | 3½ | 1¼ | 3 | |
| Major | 3284 | 3½ | 1¼ | 4 | |
| Malady | 3285 | 3½ | 1¼ | 5 | 38.00 |
| Malice | 3286 | 3½ | 1¼ | 6 | |
| Mangle | 3287 | 3½ | 1¼ | 7 | |
| Mandate | 3287½ | 3½ | 1¼ | 7½ | |
| Mange | 3288 | 3½ | 1¼ | 8 | |
| Margin | Inanimate Target—45 grs | | 1¼ | 7½ | 36.50 |
| Mail | | | | Buck | 40 00 |

### 16 GAUGE.

| | | | | | |
|---|---|---|---|---|---|
| Kal | 3657 | 2½ | ⅞ | 7 | |
| Kamson | 3658 | 2½ | ⅞ | 8 | $32 50 |
| Kate | 3659 | 2½ | ⅞ | 9 | |
| Kedge | 3660 | 2½ | ⅞ | 10 | |
| Keel | 3684 | 2⅜ | ⅞ | 4 | |
| Keenly | 3685 | 2⅜ | ⅞ | 5 | |
| Keeper | 3686 | 2⅜ | ⅞ | 6 | 34.00 |
| Keg | 3687 | 2⅜ | ⅞ | 7 | |
| Kelp | 3687½ | 2⅜ | ⅞ | 7½ | |

Grant .....with BB shot.

Kindly order by load numbers. For chilled shot, B, BB, BBB, add $1.50 per 1000.

No orders for **special** loads accepted for less than 500 cartridges, one gauge, and not less than 250 any size shot

25 in box; 500 in case. Average weight per 1000, 130 lbs.

PACIFIC HARDWARE & STEEL COMPANY

# LOADED SHOTGUN SHELLS.

## PEERLESS, SMOKELESS.

Loaded with Dupont, E. C. Schultz, or Hazard Smokeless Powder in Nitro-Powder Shells

### 10 GAUGE.

| Code. | No. | Drams. | Oz. | Size Shot. | Per 1000 |
|---|---|---|---|---|---|
| Tableau | 2052 | 3¼ | 1⅛ | 2 | |
| Taboo | 2053 | 3¼ | 1⅛ | 3 | |
| Tabor | 2054 | 3¼ | 1⅛ | 4 | |
| Tablet | 2055 | 3¼ | 1⅛ | 5 | $36 00 |
| Table | 2056 | 3¼ | 1⅛ | 6 | |
| Tabor | 2057 | 3¼ | 1⅛ | 7 | |
| Take | 2058 | 3¼ | 1⅛ | 8 | |
| Taney | 2000 | 4 | 1¼ | BB | 40 00 |
| Top | 2020 | 4 | 1¼ | Buck | 42 00 |
| Tally | 2062 | 4 | 1¼ | 2 | |
| Tacit | 2063 | 4 | 1¼ | 3 | |
| Tale | 2064 | 4 | 1¼ | 4 | |
| Tall | 2065 | 4 | 1¼ | 5 | $8 50 |
| Taint | 2066 | 4 | 1¼ | 6 | |
| Tank | 2067 | 4 | 1¼ | 7 | |
| Talk | 2068 | 4 | 1¼ | 8 | |

### 12 GAUGE

| Code. | No. | Drams. | Oz. | Size Shot. | Per 1000 |
|---|---|---|---|---|---|
| Tea | 2236 | 3 | 1 | 6 | |
| Team | 2237 | 3 | 1 | 7 | |
| Tear | 2238 | 3 | 1 | 8 | $31 50 |
| Teach | 2239 | 3 | 1 | 9 | |
| Tell | 2246 | 3 | 1⅛ | 6 | |
| Tent | 2247 | 3 | 1⅛ | 7 | |
| Temper | 2247½ | 3 | 1⅛ | 7½ | 32 30 |
| Tempest | 2248 | 3 | 1⅛ | 8 | |
| Tackle | 2249 | 3 | 1⅛ | 9 | |

### 12 GAUGE

| Code. | No. | Drams. | Oz. | Size Shot. | Per 1000 |
|---|---|---|---|---|---|
| Fenant | 2254 | 3¼ | 1 | 4 | |
| Fencer | 2255 | 3¼ | 1 | 5 | |
| Tennis | 2256 | 3¼ | 1 | 6 | $32 30 |
| Tendon | 2257 | 3¼ | 1 | 7 | |
| Tendril | 2258 | 3¼ | 1 | 8 | |
| Tube | 2200 | | 1⅛ | BB | 34 60 |
| Tusk | 2220 | 4 | 1⅛ | Buck | 36 00 |
| Ten | 2272 | 3¼ | 1⅛ | 2 | |
| Tered | 2273 | 3¼ | 1⅛ | 3 | |
| Term | 2274 | 3¼ | 1⅛ | 4 | |
| Terrace | 2275 | 3¼ | 1⅛ | 5 | 33 10 |
| Terror | 2276 | 3¼ | 1⅛ | 6 | |
| Test | 2277 | 3¼ | 1⅛ | 7 | |
| Text | 2277½ | 3¼ | 1⅛ | 7½ | |
| Turn | 2278 | 3¼ | 1⅛ | 8 | |

### 10 GAUGE.

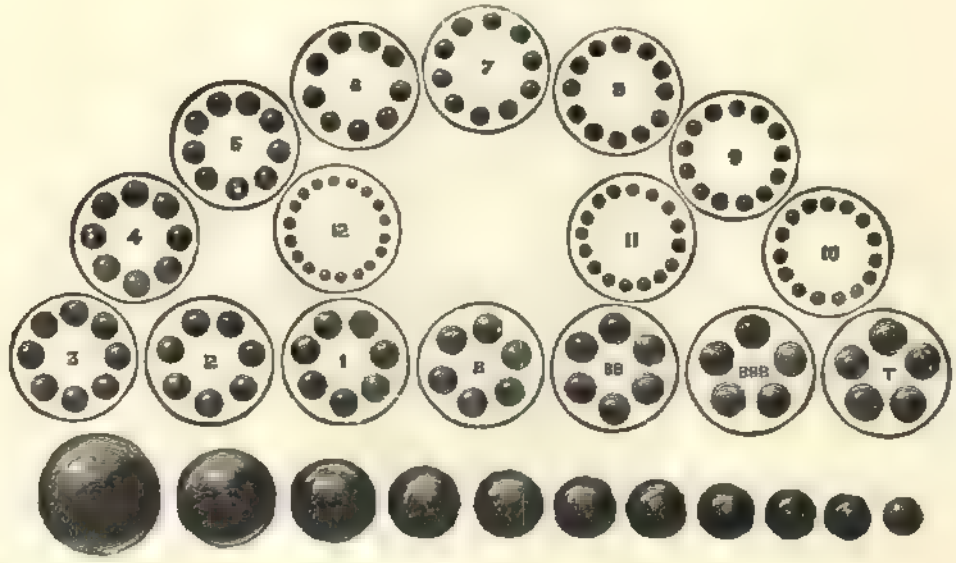
| Code. | No. | Drams. | Oz. | Size Shot. | Per 1000 |
|---|---|---|---|---|---|
| Threat | 2636 | 2½ | ⅞ | 6 | |
| Thief | 2637 | 2½ | ⅞ | 7 | |
| Thick | 2638 | 2½ | ⅞ | 8 | $28 50 |
| Thrift | 2639 | 2½ | ⅞ | 9 | |
| Thrive | 2654 | 2¾ | ⅞ | 4 | |
| Tough | 2655 | 2¾ | ⅞ | 5 | |
| Tint | 2656 | 2¾ | ⅞ | 6 | |
| Thin | 2657 | 2¾ | ⅞ | 7 | 30 00 |
| Thorn | 2658 | 2¾ | ⅞ | 8 | |
| Throne | 2659 | 2¾ | ⅞ | | |

Chilled Shot.....$1 50 per 1000 extra.

All above loads in stock and can be shipped promptly, other loads to order only.
No orders for special loads accepted for less than 500 cartridges, one gauge, and not less than 250 one size shot.
25 in box; 500 in case. Average weight per 1000, 130 lbs.

# SHOT.

Exact size drop and chilled shot.






Nos. 16 32 50 000 00 0 140 1 2 3

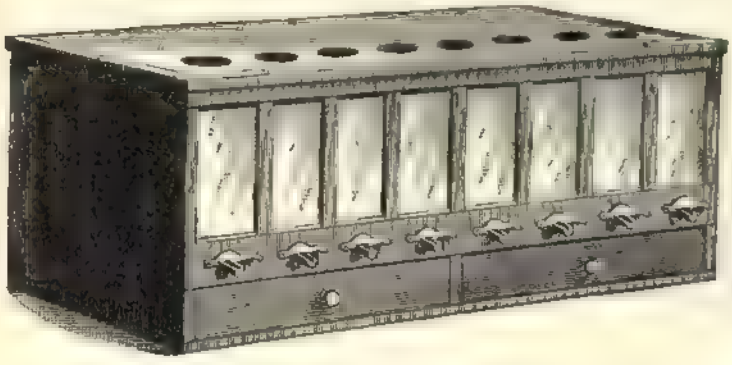
Extra size balls. Buckshot.

| | Per Sack 25 lbs. | | Per Sack 25 lbs. |
|---|---|---|---|
| Drop, Nos. 1 to 12 ..... Base price, | $ .... | Balls, Nos. 0, 00, 000 ..... Extra, | $ . |
| Drop, Nos. BBB, BB or B ..... Extra, | | Chilled, Nos. 3 to 9 ..... " | " |
| Buck, Nos. 1, 2 or 3 (3 smallest) ..... | | Dust ..... | |
| Balls, sizes to lb., 16, 32, 50, 85, 140 ..... | | | |

Price on application

# SHOT CASES.

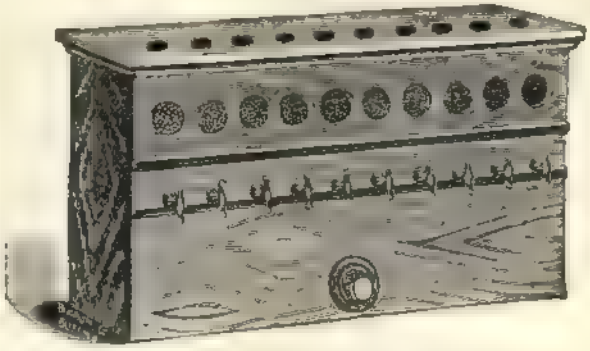
## DUNSCOMB.



The Dunscomb Shot Case has 8 compartments, each holding about 35 pounds. Size 2 feet long, 9 inches deep, and 13½ inches high. Strong and durable ..... Each, $10.00

Shipping weight, 40 lbs.

## SELF-WEIGHING.



Self-weighing Shot Case, hardwood finish, japanned handles, 30 inches long, 18 inches high, 9 inches deep, 10 bins, each bin having capacity of 25 pounds, each quarter turn and reverse of handle delivers one pound of shot in drawer at lower part of case.

Each ..... $15.00

Shipping weight, 75 lbs.

# PADLOCKS.

## Wrought. Japanned.

Nos. 100 to 200.

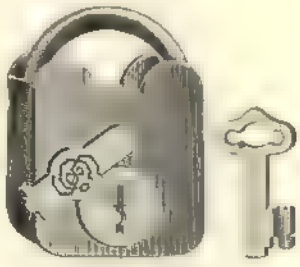
| Nos. | Size. Inch. | DESCRIPTION. | Weight, Lbs. | Per Dozen |
|---|---|---|---|---|
| 100 | 2 | 1 wheel. 1 key. 4 changes | 2¼ | $ |
| 120 | 2 | Self-locking spring shackle. 1 key. 4 changes. | 2¾ | 1 |
| 200 | 2¼ | Wrought iron shackle and bolt. 1 ward. 1 key. | 4¼ | 2 70 |
| 122 | 2 | Self-locking spring shackle. Brass bushings. Revolving key pin. 2 flat steel keys. 4 changes | 3 | 4 50 |

One dozen in box.

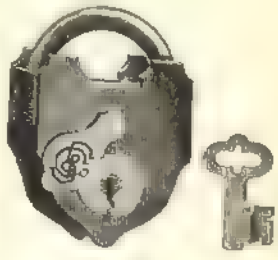
No. 122.

No. 201.

Nos. 202 and 1202.



Nos. 216 and 216C.



No. 885.

| Nos. | Size Inch. | DESCRIPTION | Weight Lbs. | Per Dozen. |
|---|---|---|---|---|
| 201 | 2½ | Wrought. Japanned. Brass drop. 2 keys | 3 | $3 75 |
| 202 | 2¾ | " " " Raised bushings. 2 keys. 4 changes | 4¼ | 3 90 |
| 1202 | 2¾ | " Galvanized " " 2 " 4 " | 3¾ | 5 35 |
| 216 | 2¾ | Wrought. Japanned. " " and basings. Self-locking spring shackle. Revolving key pin. 2 flat keys. 6 changes | 4½ | 7.25 |
| 216 C | 2¾ | Same as No. 216. With chain | 5¼ | 9 00 |
| 885 | 2½ | Wrought. Japanned. Brass drop and bushings. Revolving key pin. 2 flat steel keys. 6 changes | 5 | 7.70 |

Nos. 201 to 1202, one dozen; balance, one-half dozen in box.

No. 232.

No. 347C.

No. 386C.

No. 1821C.

| Nos. | Size Inch. | DESCRIPTION | Weight Lbs. | Per Dozen. |
|---|---|---|---|---|
| 232 | 2¼ | Wrought. Japanned. Brass bushings. Revolving key pin. Self-locking spring shackle. 2 double-fitted flat steel keys. 6 changes | 4½ | $ 8.35 |
| 347 C | 2½ | Wrought. Japanned. Brass drop and bushings. Self-locking spring shackle. With chain. 2 steel keys. 6 changes | 8 | 9 30 |
| 386 C | 2⅝ | Wrought. Japanned. Brass drop and bushings. Revolving key pin. Heavy shackle. With chain. 2 flat steel keys. 6 changes | 6½ | 10.30 |
| 1821 C | 2¼ | Wrought. Galvanized. Brass drop. Self-locking spring shackle. With chain. 2 flat steel keys. 6 changes | 5½ | 11.75 |

One-half dozen in box.

# PADLOCKS.

Nos. 1903 to 1905

Nos. 8034 and 08086.

Nos. 1398 to 77.

| Nos. | Size, Inch. | DESCRIPTION. | Weight, Lbs. | Per Dozen. |
|---|---|---|---|---|
| 1903 | 1½ | Steel. Ivory black finish. Self-locking spring shackle. 2 flat steel keys. 6 changes | 1½ | $1 50 |
| 1904 | 2 | " " " " " " " 2 " " " 12 " | 2¾ | 2 50 |
| 1906 | 2 | " Antique copper finish. " " " 2 " " " 12 " | 2¾ | 3.00 |
| 1907 | 2 | Brass. Bright finish. Self-locking spring shackle. 2 flat steel keys. 12 changes | 3 | 4.00 |
| 1905 | 2½ | Steel. Ivory black finish. " " " 2 " " " 24 " | 4½ | 5.00 |
| 8084 | 1¾ | " Bright finish. Self-locking spring shackle. 2 secure levers. 2 flat steel keys. 12 changes | 3 | 4.00 |
| 08086 | 1¾ | Brass. Plain " " " " 3 " " 2 " " " 12 " | 3½ | 6.00 |
| 1398 | 1¼ | Steel. Ivory black finish. Automatic spring shackle. 2 flat steel keys. 100 changes | 1¾ | 3.50 |
| 76 | 1⅞ | " " " " " " 4 secure levers. 2 flat steel keys. 100 changes | 3⅞ | 4.00 |
| 77 | 1⅞ | Brass. Bright finish. Automatic spring shackle. 4 " " 2 " " " 100 " | 3¾ | 5.00 |

Nos. 8114 and 8126.

Nos. 8216 and 08216.

Nos. 8244 and 08244.

| Nos | Size, Inch. | DESCRIPTION | Weight, Lbs. | Per Dozen |
|---|---|---|---|---|
| 8114 | 2 | Steel. Ivory black finish. Steel self-locking spring shackle. 4 secure levers. 2 flat steel keys. 60 changes. | 4½ | $ 6 00 |
| 8126 | 2½ | Steel. Ivory black finish. Steel self-locking spring shackle. 4 secure levers. 2 flat steel keys. 60 changes. | 7½ | 8.00 |
| 8216 | 2 | Steel. Ivory black finish. Nickel-plated self-locking spring shackle. 6 secure levers. 2 corrugated nickel-plated steel keys. 3000 changes. | 4 | 10.00 |
| 08216 | 2 | All brass. Satin finish. Cast brass self-locking spring shackle. 6 secure levers. 2 corrugated nickel-plated steel keys. 3000 changes. | 4¼ | 12 00 |
| 8244 | 2½ | Steel. Ivory black finish. Brass-plated self-locking spring shackle. 8 secure levers. 2 flat nickel-plated steel keys. 3000 changes. | 5¼ | 10 00 |
| 08224 | 2½ | All brass. Satin finish. Brass self-locking spring shackle. 8 secure levers. 2 flat nickel-plated keys. 14000 changes. | 6½ | 15 00 |

Nos. 08182, 8156, 8196 and 8084, one dozen; balance, one-half dozen in box.

# PADLOCKS.

No. 8132.

Nos. 8032 to 8046.

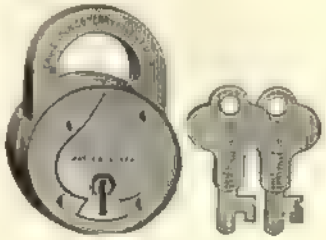
Nos. 8234 and 8236

Nos. 105 and 110.

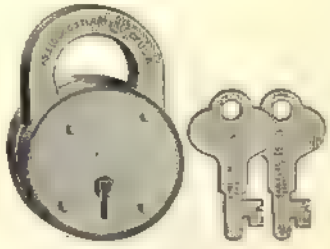
| Nos. | Size, Inch. | DESCRIPTION | Weight, Lbs. | Per Dozen. |
|---|---|---|---|---|
| 8132 | 2 | Steel. Ivory black finish. Self-locking spring shackle. 1 flat steel key. 5 changes | 1¼ | $1 50 |
| 8032 | 1 | Brass. Plain finish. Self-locking spring shackle. 1 flat steel key. 4 changes | ½ | 2 25 |
| 8034 | 1¼ | Steel. Ivory black finish. Self-locking spring shackle. 1 flat steel key. 5 changes | 1 | 1 25 |
| 8038 | 1½ | " " " " " " " 1 " " " 6 " | 1½ | 1 35 |
| 8042 | 1¾ | " " " " " " " 1 " " " 12 " | 2¼ | 1 70 |
| 8046 | 2 | " " " " " " " 1 " " " 12 " | 3¼ | 2 00 |
| 8234 | 2 | Steel. " " " Nickel-plated self-locking spring shackle 2 secure levers. 3 wards. 2 nickel-plated flat steel keys. 12 changes. | 3½ | 3 50 |
| 8236 | 2¼ | Steel. Ivory black finish. Nickel-plated self-locking spring shackle. 2 secure levers 4 wards 2 nickel-plated flat steel keys. 12 changes | 4¼ | 4 50 |
| 105 | 1⅞ | Steel. Ivory black finish. Self-locking spring shackle. 2 flat steel keys. 12 changes | 3 | 2.40 |
| 110 | 2¼ | " " " " " " " 2 " " " 24 " | 4 | 3 00 |

No. 08094.

No 08182.



No. 08166.



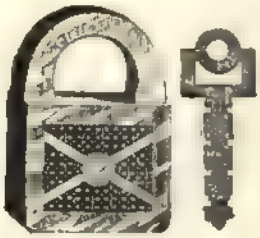
Nos. 8156 and 8196.

| Nos. | Size, Inch. | DESCRIPTION | Weight, Lbs. | Per Dozen. |
|---|---|---|---|---|
| 08094 | 1 | Brass. Satin finish. Self-locking spring shackle. 3 secure levers. 2 nickel-plated flat steel keys. 12 changes | 1½ | $5.00 |
| 08182 | 1¼ | Brass. Plain finish. Self-locking heavy spring shackle 2 nickel-plated flat steel keys. 5 changes | 1½ | 2.50 |
| 08166 | 1¾ | " " " " spring shackle. 2 nickel-plated flat steel keys. 5 changes | 2¼ | 3.00 |
| 8156 | 1¾ | Steel. Ivory black finish. Self-locking spring shackle 2 nickel-plated flat steel keys 5 changes | 1¾ | 2 00 |
| 8196 | 2 | " " " " " " " 2 " " " " 5 " | 2 | 2.50 |

Nos. 105, 110, 8234 and 8236, one-half dozen; balance, one dozen in box.

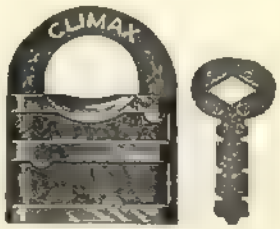
# PADLOCKS.

No. 1303



No. 303.

No. 50




Nos. 215 and 222.

| Nos. | Size Inch. | DESCRIPTION | Weight, Lbs. | Per Dozen. |
|---|---|---|---|---|
| 1303 | 1⅜ | Aluminum bronze. Self-locking spring shackle. 2 flat steel keys | 1¼ | $1 85 |
| 303 | 1⅝ | " " " " 2 " " " | 2½ | 2.10 |
| 50 | 2 | Iron. Bronze-plated. " " " 2 " " | 3½ | 3 00 |
| 215 | 1½ | Bronze. Self-locking spring shackle. 2 flat steel keys. 6 changes | 1⅝ | 4.00 |
| 222 | 2 | " " " 2 " " | 4 | 5.00 |

Nos. 8190 and 08190.

No. 1901.

Nos. 926 to 928.

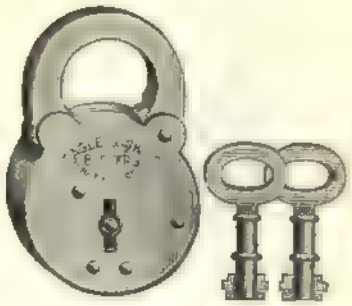
No. 938.

| Nos. | Size, Inch. | DESCRIPTION. | Weight, Lbs. | Per Dozen. |
|---|---|---|---|---|
| 8190 | 2 | Steel. Ivory black finish. Self-locking spring shackle. 2 nickel-plated corrugated steel keys. 12 changes | 3½ | $ 6 00 |
| 08190 | 2 | Brass. Satin finish. Self-locking spring shackle. 2 nickel-plated corrugated steel keys. 12 changes | 3½ | 8 00 |
| 1901 | 2 | " Plain " " " " " 2 " " " " " 12 " | 4¼ | 4.50 |
| 926 | 2 | Gun metal bronze. Self-locking spring shackle. Phosphor bronze springs. 2 flat steel keys | 5½ | 9.50 |
| 926 C | 2 | Same as No. 926. With chain | 6½ | 11.50 |
| 928 | 2¼ | " " " 926 | 6½ | 14.00 |
| 938 | 2¼ | " " " 926. With extra wide shackle | 4½ | 10.00 |

No. 1303, one dozen; balance, one-half dozen in box.

PACIFIC HARDWARE & STEEL COMPANY

# PADLOCKS.



No. 8210

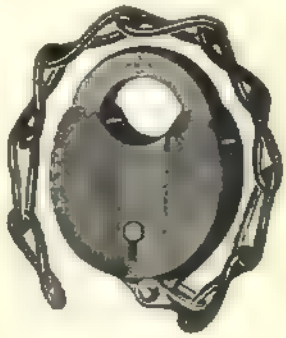
No. 1.

No. 7.

No. 10.

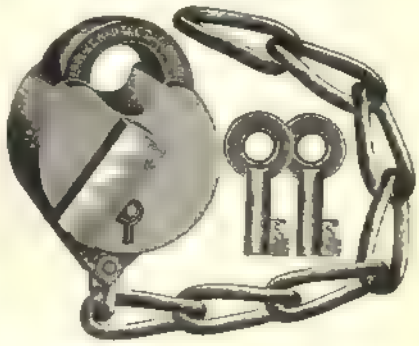
| Nos. | Size, Inch. | DESCRIPTION. | Weight, Lbs. | Per Dozen. |
|---|---|---|---|---|
| 8210 | 2 | Steel, brass-plated. Cast brass self-locking spring shackle. 6 secure levers. 2 flat bow double-bit steel keys. 12 changes in dozen | 5 | $ 4 00 |
| 1 | 2⅛ | Cast bronze self-locking spring shackle. 6 levers. 2 nickel-plated flat steel keys. One million changes | 6¼ | 12 00 |
| 7 | 2¼ | Cast bronze self-locking spring shackle. 6 levers. 2 nickel-plated flat steel keys. One million changes | 6¾ | 12 00 |
| 10 | 2¼ | Same as No. 7. With chain. | – | 14 00 |

Nos. 1482 to 1484



No. 1584.

No. 08238.



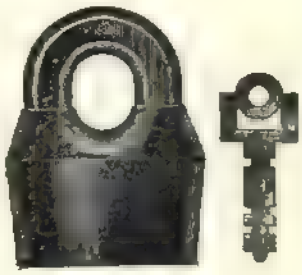
No. 08240.

| Nos. | Size, Inch. | DESCRIPTION. | Weight, Lbs. | Per Dozen |
|---|---|---|---|---|
| 1482 | 1⅝ | Bronze. Highly polished. Self-locking spring shackle. 2 bronze keys | 2½ | $ 3 35 |
| 1483 | 1¾ | " " " " " " 2 " " | 3 | 4.00 |
| 1484 | 2 | " " " " " " 2 " " | 4 | 4.75 |
| 1584 | 2 | Same as No. 1484. With chain. | 4½ | 6 00 |
| 08238 | 2½ | Cast bronze. Self-locking spring shackle and drop. 2 secure levers. 2 bronze keys. 1200 changes. | 6 | 18 00 |
| 08240 | 2½ | Same as No. 08238. With 9-inch tinned heavy chain. 2 bronze keys. 1200 changes. | 6½ | 20 00 |

One-half dozen in box.

# PADLOCKS.

No. 999.



No. 5512.

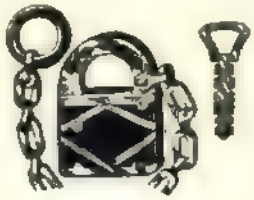
Nos. 125 to 165.

| Nos. | Size, Inch. | DESCRIPTION. | Weight Lbs. | Per Dozen |
|---|---|---|---|---|
| 999 | 1⅛ | Bronze. 3 tumblers. 2 flat steel keys. 16 changes. | 6 | $ 6.60 |
| 5512 | 2¼ | Steel. Ivory black finish. Self-locking steel shackle. Rolled steel tumblers. 2 flat steel keys. | 9 | 4 00 |
| 125 | 1½ | Malleable iron. All brass inside works. 5 tumblers. 2 flat steel keys. | 6½ | 12 00 |
| 145 | 1⅝ | " " " " " " 5 " 2 " " " | 11½ | 14 00 |
| 155 | 2⅛ | " " " " " " 5 " 2 " " " | 17 | 16 50 |
| 165 | 2¼ | " " " " " " 5 " 2 " " " | 25 | 23 00 |

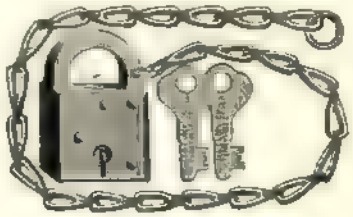
No. 165, one-quarter dozen; balance, one-half dozen in box.

# BICYCLE.

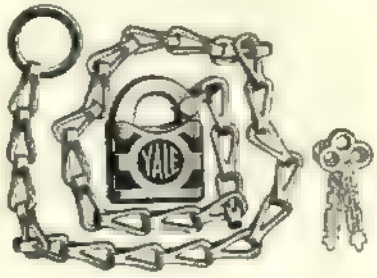
No. 791.



No. 07240.



No. 8094C.




No. 8013B.

| Nos. | Size Inch | DESCRIPTION. | Weight, Lbs. | Per Dozen. |
|---|---|---|---|---|
| 791 | 1⅛ | Bronze. Nickel-plated. Self-locking. 2 keys. 200 changes. | 2 | $ 4.45 |
| 07240 | 1⅛ | " Polished. Self-locking. 2 keys. With nickel-plated chain. | 2 | 5.90 |
| 8094 C | 1 | Steel. Ivory black finish. Self-locking. Spring shackle. Nickel-plated chain. 3 secure levers. 2 keys. 12 changes. | 1½ | 4.00 |
| 8013 B | 1 | Bronze. Polished. 3 tumblers. Self-locking. Nickel-plated chain. 2 keys. 54 changes. | 2½ | 24 00 |

One dozen in box.

PACIFIC HARDWARE & STEEL COMPANY

# PADLOCKS.

## YALE.

Nos. S43 to A53.

Nos. 803 and 805.

No. 8454

| Nos. | Size, Inch. | DESCRIPTION | Weight Lbs. | Per Dozen |
|---|---|---|---|---|
| S 43 | 1½ | Steel case. Bower barff finish. Nickel-plated steel shackles. Self-locking. 3 tumblers. 2 corrugated steel keys. 36 changes | 2½ | $14 00 |
| A 43 | 1½ | Brass case. Satin finish. Nickel-plated steel shackles. Self-locking. 3 tumblers. 2 corrugated steel keys. 36 changes | 2½ | 15.50 |
| S 53 | 2 | Same as S43. With 4 tumblers. 144 changes | 5 | 17.50 |
| A 53 | 2 | " " A43. " 4 " 144 " | 5 | 19.00 |
| 803 | 1½ | Iron case. Bower barff finish. Bronze spring shackle. Self-locking. Pin tumblers. 2 nickel-plated flat steel keys | 4 | 11.00 |
| 805 | 2 | Iron case. Bower barff finish. Bronze spring shackle. Self-locking. Pin tumblers. 2 nickel-plated flat steel keys | 7 | 14.00 |
| 8454 | 2 | Steel case. Bower barff finish. Steel spring shackle. Self-locking. 4 tumblers. 2 nickel-plated flat steel keys | 6 | 19.00 |

Nos. 813 to 843.

Nos. 853 and 863.

Nos. 8023 to 8063

| Nos. | Size, Inch. | DESCRIPTION. | Weight, Lbs. | Per Dozen. |
|---|---|---|---|---|
| 813 | 1 | Cast bronze. Spring shackle. 3 tumblers. 2 nickel-plated flat steel keys. 54 changes | 1¼ | $17 00 |
| 823 | 1¼ | " " " " 3 " 2 " " " " " " 54 " | 2 | 19.00 |
| 833 | 1½ | " " " " 3 " 2 " " " " " " 54 " | 4 | 22.00 |
| 843 | 1¾ | " " " " 4 " 2 " " " " " " 82 " | 5 | 25.00 |
| 853 | 2 | " " " " 4 " 2 " " " " " " 144 " | 7 | 28 00 |
| 863 | 2¼ | " " " " 4 " 3 " " " " " " 144 " | 9½ | 35.00 |
| 8023 | 1¼ | " " " " 3 " 2 " " " " " " 54 " with chain | 4½ | 22.00 |
| 8033 | 1½ | " " " " 3 " 2 " " " " " " 54 " " " " | 5 | 25.00 |
| 8043 | 1¾ | " " " " 4 " 2 " " " " " " 82 " " " " | 6½ | 28.00 |
| 8053 | 2 | " " " " 4 " 2 " " " " " " 144 " " " " | 8 | 32.00 |
| 8063 | 2¼ | " " " " 4 " 2 " " " " " " 144 " " " " | 10 | 39.00 |

One-half dozen in box.

# PADLOCKS.

FOR BAGS, SMALL BOXES, DOG COLLARS, ETC.

Nos. 08129 and 370.

Nos. 08092 and 8028.

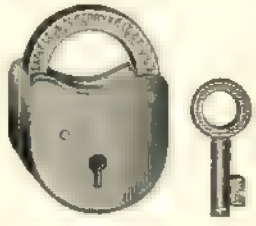
No. 8211.

| Nos. | Size, Inch. | DESCRIPTION. | Weight, Lbs. | Per Dozen |
|---|---|---|---|---|
| 08129 | ⅝ | Brass. Nickel-plated. Self-locking | ¼ | $2.00 |
| 370 | ½ | Brass " Keyless secret lock. In opening, push keyhole pin to the right and at the same time raise shackle | ¼ | 1.50 |
| 08092 | ⅝ | Aluminum. Self-locking | ¼ | 2.25 |
| 8028 | ⅝ | Brass Self-locking | ¼ | 4.00 |
| 8211 | ⅝ | " Nickel-plated. Self-locking | ¼ | 2.00 |

One dozen on attractive card with easel back

No. 301.

No. 302.



No. 04124½.

No. 103

| Nos. | Size, Inch. | DESCRIPTION | Weight Lbs. | Per Dozen |
|---|---|---|---|---|
| 301 | ⅝ | Brass Nickel-plated | ¼ | $3.00 |
| 302 | ¾ | " | ⅓ | 4.00 |
| 04124½ | ¾ | " Self-locking | ⅓ | 4.00 |
| 103 | ⅝ | Bronze. Self-locking | ¼ | 2.40 |

No. 04124½, one dozen on card; balance, one dozen in box.

Nos. 30 and 70.

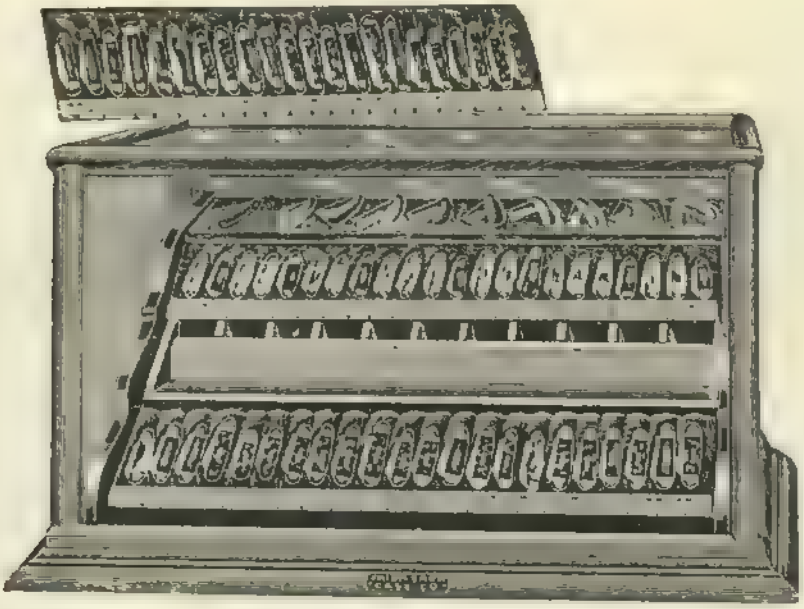
Nos. 31 and 71.

Nos. 32 and 72.

| Nos. | Size, Inch. | DESCRIPTION. | Weight, Lbs. | Per Dozen. |
|---|---|---|---|---|
| 30 | ⅝ | Wrought brass. Self-locking. Spring shackle | ¼ | $4.50 |
| 31 | ¾ | " " " " " | ⅓ | 4.50 |
| 32 | 1 | " " " " " | ½ | 5.00 |
| 70 | ⅝ | " " Nickel-plated. Self-locking. Spring shackle | ¼ | 5.75 |
| 71 | ¾ | " " " " " | ⅓ | 5.75 |
| 72 | 1 | " " " " " | ½ | 6.25 |

One dozen in box.

# Cutlery Display Cases.



**Dempsey Cutlery Case** 30 in Long, 17 in. High, Antique Oak Finish. Finest Quality Double Thick Glass Trays Covered with Dark Plush, Divided Compartments Under Trays for Holding Surplus Stock.....Each, $25 00

No. 30

**No. 30**—Combination Cutlery Case, Solid Oak, Highly Polished, Plush Lined, Mirrored Door, Hung on Brass Spring Hinges. Double Strength Glass, Size, 36 in Long, 25 in Wide, 14½ in. High, with Spaces for 30 Patterns of Pocket Knives, 12 Patterns of Razors or Scissors Fitted with Partitioned Drawer to hold Duplicate Stock, Drawer is Divided into Compartments to Correspond with Divisions in Frame, Weight Each, 100 lbs.....Each, $25 00

Packed One in a Case

# Pocket Knives.

## Columbia Cutlery Co., Warranted.

Full Size Cuts

No. 1210

**No. 1210**—3⅜ in., One Blade, Rosewood Handle, Steel Lined, Polished Steel Bolster ..Per Dozen, $3 50
**No. 1310**—3⅜ " " " Ebony " " " " " " " " " " 3 75
**No. 1211**—4 " " " Cocoa " " " " " " " " " " 9 00

No. 2210

**No. 2210**—3⅜ in., Two Blades, Rosewood Handle, Steel Lined, Polished Steel Bolster . . . Per Dozen, $5 50

No. 2310.

**No. 2310**—3⅜ in., Two Blades, Ebony Handle, Steel Lined, Polished Steel Bolster . . . . . Per Dozen, $5 75

No. 2211.

**No. 2211**—3⅜ in Two Blades, Rosewood Handle, Steel Lined, Polished Steel Bolster . Per Dozen, $5 50
**No. 2311**—3⅜ " " " Ebony " " " " " " " " " " 5 75
**No. 2510**—3⅜ " " " Stag " " " " " " " " " " 6 00

No. 2511.

**No. 2511**—3⅜ in., Two Blades, Stag Handle, Steel Lined, Polished Steel Bolster.. . . . . Per Dozen, $6 00

All Half Dozen in a Box.

# Pocket Knives.

## Columbia Cutlery Co., Warranted.

Full Size Cuts

No. 2110.

**No. 2110** 3⅝ in., Two Blades, Iron Handle, Steel Lined, Iron Bolster.... ..... . .. .... ..Per Dozen, $6 50

No. 2212.

**No. 2212**—3½ in . Two Blades, Rosewood Handle, Steel Lined, Polished Steel Bolster Per Dozen, $6 50
**No. 2312**—3½ in., " " Ebony " " " " " " " " " " 7 00

No. 2512.

**No. 2512**—3½ in . Two Blades, Stag Handle, Steel Lined, Polished Steel Bolster ..... .. Per Dozen, $7 50

No. 2213.

**No. 2213**—3½ in . Two Blades, Rosewood Handle, Steel Lined, Polished Steel Bolster and Cap Per Dozen, $8 50

No. 2313.

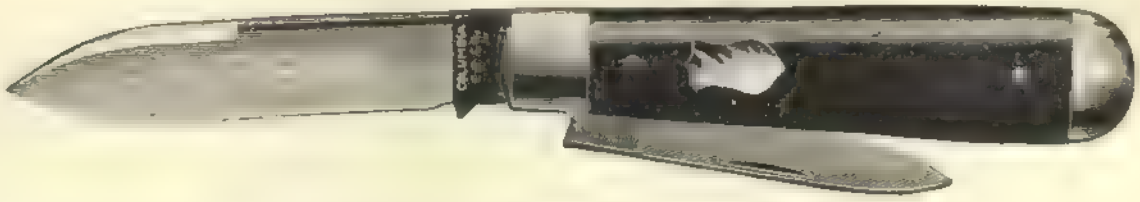
**No. 2313** 3½ in., Two Blades, Ebony Handle, Steel Lined, Polished Steel Bolster and Cap . Per Dozen, $8 50
**No. 2220** 3½ in , " " Rosewood Handle, Brass Lined, Polished Steel Bolster and Cap " " 9 50

All Half Dozen in a Box

# Pocket Knives.

## Columbia Cutlery Co., Warranted.

Full Size Cuts.

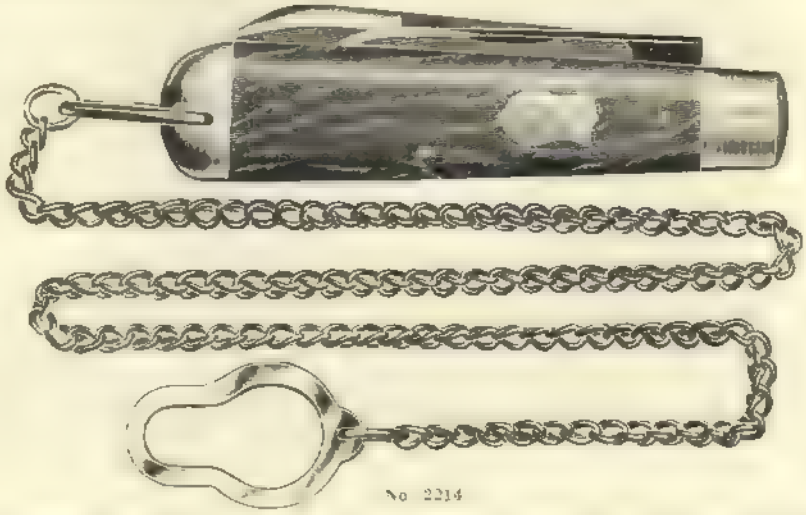


No. 2320

**No. 2320**—3½ in., Two Blades, Ebony Handle, Brass Lined, Steel Bolster and Cap.....Per Dozen, $9 00
**No. 2520**—3½ " " " Stag " " " " " " " " " " " 9 00

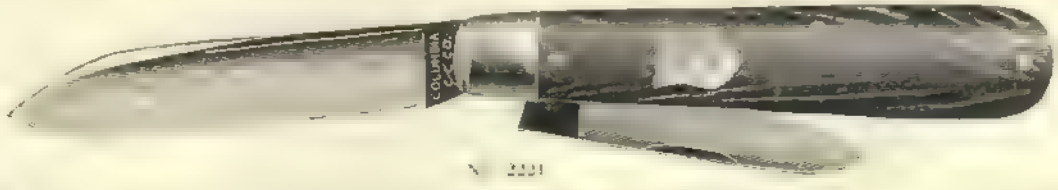
No. 2521

**No. 2521**—3½ in., Two Blades, Stag Handle, Brass Lined, Steel Bolster and Cap ... . .....Per Dozen, $9 50



No. 2214

**No. 2214** 3½ in., Two Blades, Rosewood Handle, Steel Lined, Polished Steel Bolster and Cap, with 18 in. Chain and Ring.....Per Dozen, $ 9 50
**No. 2513**—3½ in , Two Blades, Stag Handle, Steel Lined, Polished Steel Bolster and Cap, with 18 in., Chain and Ring.....Per Dozen, 10 00



No. 2221

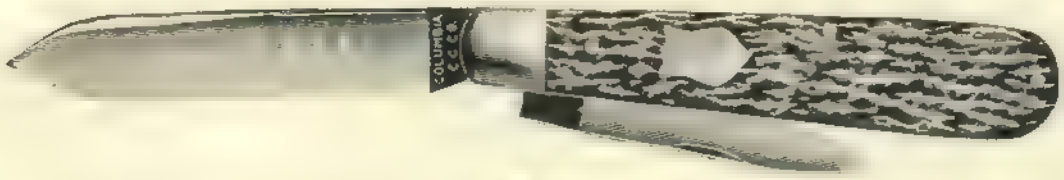
**No. 2221**—3¼ in , Two Blades, Cocoa Handle, Brass Lined, German Silver Bolster . . . .Per Dozen. $9 00
**No. 2321**—3¼ " " " Ebony " " " " " " " " " " " 9 50

All Half Dozen in a Box.

# Pocket Knives.

## Columbia Cutlery Co., Warranted.

Full Size Cuts.



No. 2522.

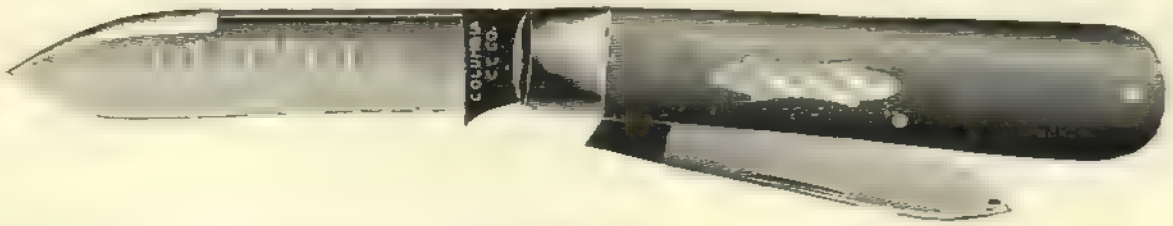
**No. 2522**—3¼ in., Two Blades, Stag Handle, Brass Lined, German Silver Bolster.... . . Per Dozen, $10 00

No. 2222.

**No. 2222**—3½ in., Two Blades, Rosewood Handle, Brass Lined, Polished Steel Bolster . Per Dozen, $8 00
**No. 2322**—3½ in., " " Ebony " " " " " " .. " " 8 00

No. 2321.

**No. 2523** 3½ in., Two Blades, Stag Handle, Brass Lined, Polished Steel Bolster .. ... Per Dozen. $8 50



No. 2323.

**No. 2223**—3¾ in., Two Blades, Rosewood Handle, Brass Lined, Polished Steel Bolster.....Per Dozen, $9 50
**No. 2323**—3¾ in., " " Ebony " " " " " " .. " " 9 50

No. 2524.

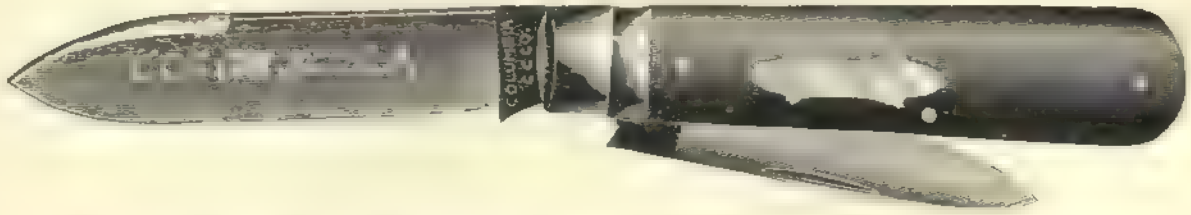
**No. 2524**—3¾ in., Two Blades, Stag Handle, Brass Lined, Polished Steel Bolster .. ... Per Dozen, $10 00

All Half Dozen in a Box.

# Pocket Knives.

## Columbia Cutlery Co., Warranted.

Full Size Cuts



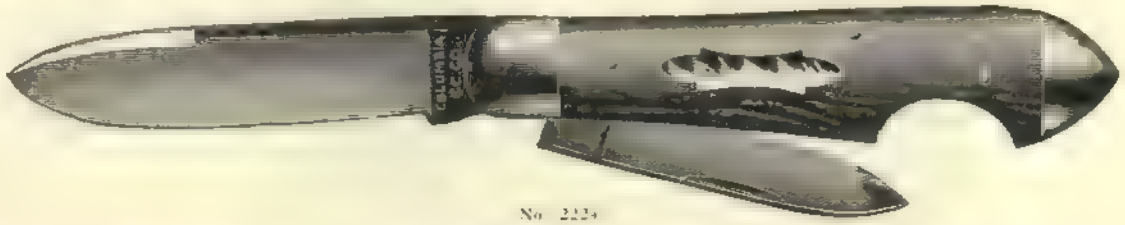
No. 2324

**No. 2324**—3¾ in. Two Blades, Ebony Handle, Brass Lined, Polished Steel Bolster. ... Per Dozen, $10 00

No. 2325

Easy Opener.

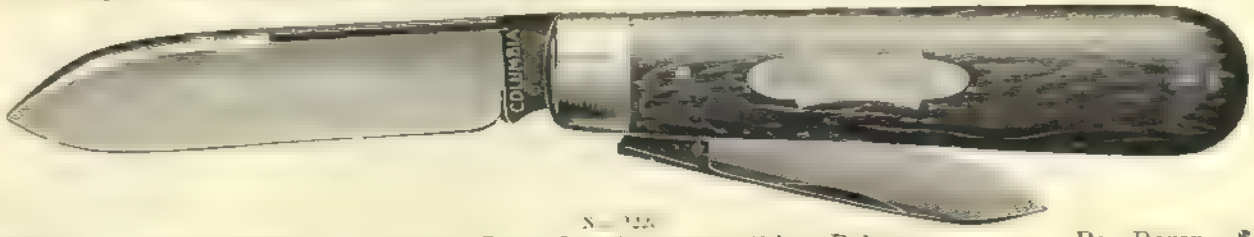
**No. 2325**—3⅝ in., Two Blades, Ebony Handle, Brass Lined, Polished Steel Bolster ..Per Dozen, $10 00



No. 2224

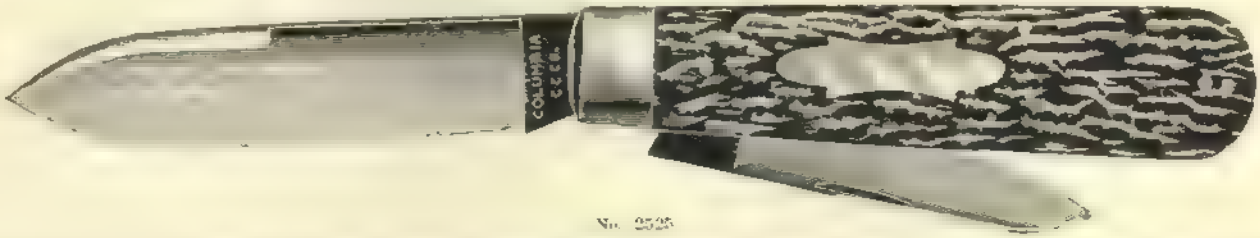
Easy Opener.

**No. 2224**—3⅝ in., Two Blades, Cocoa Handle, Brass Lined, German Silver Bolster and Cap . Per Dozen, $10 50



No. 2225

**No. 2225**—4 in., Two Blades, Cocoa Handle, Brass Lined, German Silver Bolster. . . Per Dozen, $12 00
**No. 2326**—4 " " " Ebony " " " " " " " " 13 00



No. 2525

**No. 2525**—4 in., Two Blades, Stag Handle, Brass Lined, German Silver Bolster .. . ....Per Dozen, $13 00

All Half Dozen in a Box.

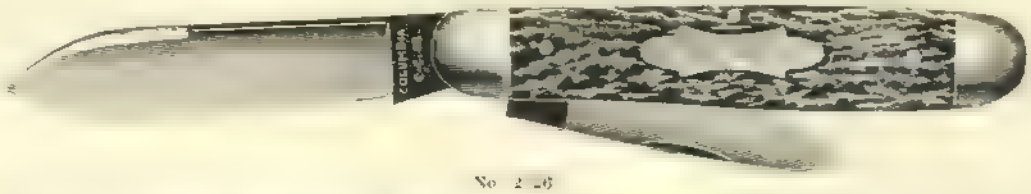
# Pocket Knives.

## Columbia Cutlery Co., Warranted.

Full Size Cuts

No 2226.

**No. 2226**—3¼ in., Two Blades, Rosewood Handle, Brass Lined, Steel Bolster and Cap.....Per Dozen, $9 50
**No. 2329**—3¼ " " " Ebony " " " " " " " " " " " " 9 50

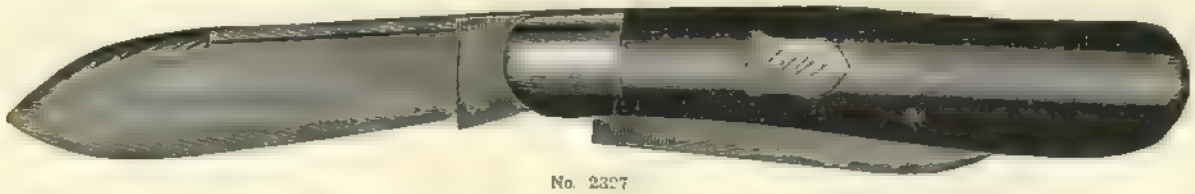



No 2526

**No. 2526**—3¼ in., Two Blades, Stag Handle, Brass Lined, Steel Bolster and Cap .....Per Dozen, $10 00

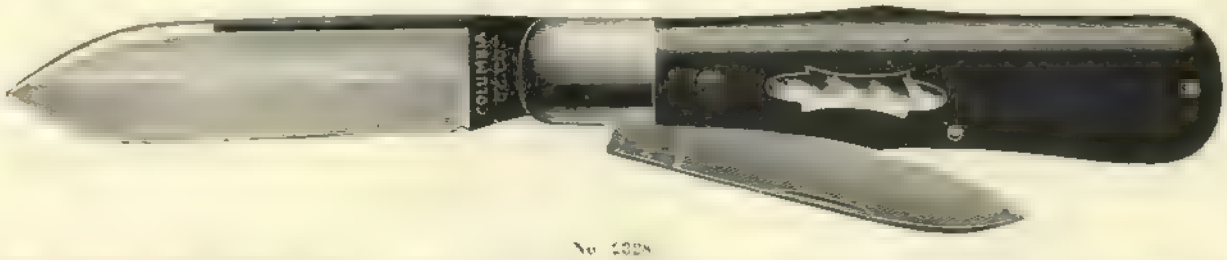
No. 23210

**No. 23210**—3⅝ in., Two Blades, Ebony Handle, Brass Lined, German Silver Bolster and Cap, Per Dozen, $11 50
**No. 2227**—3⅝ " " " Cocoa " " " " " " " " " " " " 11 50



No. 2327

**No. 2327**—3¾ in., Two Blades, Ebony Handle, Brass Lined, German Silver Bolster .Per Dozen, $12 50




No. 2328

**No. 2328**—3⅞ in., Two Blades, Ebony Handle, Brass Lined, German Silver Bolster..... Per Dozen, $12 00

**All Half Dozen in a Box.**

# Pocket Knives.

## Columbia Cutlery Co., Warranted.

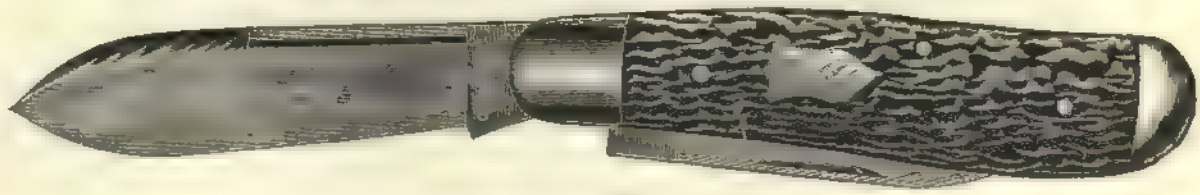
Full Size Cuts.

No. 2527

**No. 2527**—3⅝ in., Two Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap....Per Dozen, $12 00

No. 2528.

**No. 2528**—3¾ in., Two Blades, Stag Handle, Brass Lined, Polished Bolster and Cap ..... Per Dozen, $12 00



No. 2529

**No. 2529**—3¾ in.. Two Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap . Per Dozen, $13 00

No. 2228.

**No. 2228**—3⅝ in , Two Blades. Cocoa Handle. Brass Lined, Polished Steel Bolster and Cap Per Dozen, $10 00

No. 25210

**No. 25210**—3⅞ in., Two Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap Per Dozen, $12 50
**No. 23211**—3⅞ " " " Ebony " " " " " " " " " " 11 50

All Half Dozen in a Box.

# Pocket Knives.

## Columbia Cutlery Co., Warranted.

Full Size Cuts

No. 25212

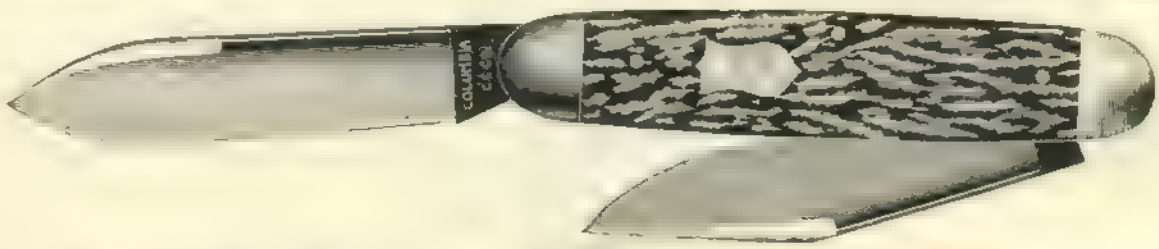
**No. 23212** –$3\frac{5}{8}$ in., Two Blades, Ebony Handle, Brass Lined, German Silver Bolster and Cap Per Dozen, $11 50
**No. 25211** $3\frac{5}{8}$ " " " Stag " " " " " " " " " " 12 00

No. 25211

**No. 25212**—$3\frac{1}{4}$ in., Two Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap Per Dozen, $11 50

No. 23213

**No. 23213**—$3\frac{3}{4}$ in., Two Blades, Ebony Handle, Brass Lined, German Silver Bolster and Cap Per Dozen, $13 50



No. 25213

**No. 25213**—$3\frac{3}{4}$ in., Two Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap Per Dozen, $13 50

No. 25214

**No. 25214**—$3\frac{3}{4}$ in., Two Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap. Per Dozen, $12 00

All Half Dozen in a Box.

# POCKET KNIVES.

## STILETTO

Fully Warranted

No. 10.

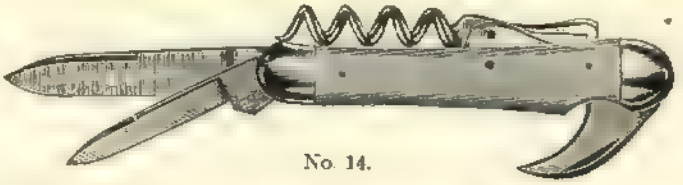
**No. 10**—Two blades, Corkscrew, Wire hook and Cigar cutter, full crocus polished. German silver handle.... ..... .. .... . Per dozen, $18.00

No. 11.

**No. 11** Two blades, Corkscrew and Wire hook, full crocus polished. Fancy metal handle German silver lined .. . . ..Per dozen, $24 00

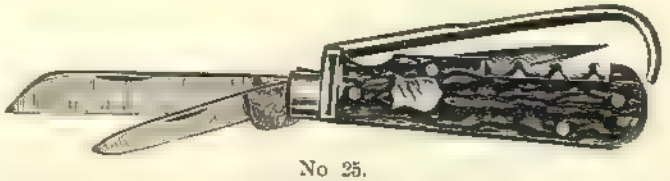
No. 12.

**No. 12**—Two blades, Corkscrew and Wire hook, full crocus polished Pearl handle. Brass lined German silver cap and bolster..Per dozen, $30.00
**No. 13**— " " " " " " " " " " Stag " " " " .. .. " " .. " 21.00



No. 14.

**No. 14**—Two blades, Corkscrew and Wire hook, full crocus polished Pearl handle. Brass lined. German silver cap and bolster..... .....Per dozen, $48 00



No 25.

**No. 24**—Two blades, Corkscrew, Punch, Hoof cleaner, Pick and Tweezers, full crocus polished. Pearl handle Brass lined. German silver bolster.... ..Per dozen, $36 00

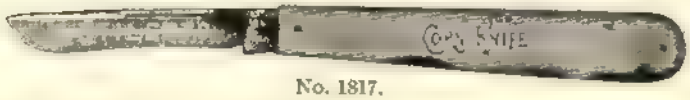
**No. 25**—Two blades, Corkscrew, Punch, Hoof cleaner, Pick and Tweezers, full crocus polished. Stag handle Brass lined. German silver bolster..... 30 00

One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

## STILETTO

Fully Warranted.

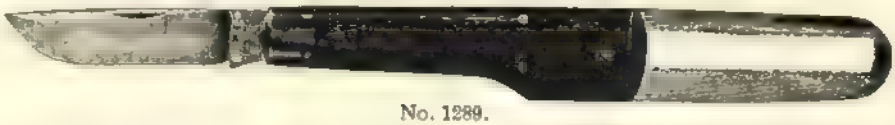



No. 1817.

**No. 1817**—Corn One blade, full crocus polished. Ivory handle. Brass lined..... ..Per dozen, $12.00

No. 1818

**No. 1818**—Budding. One blade, glazed. Ivory handle. Brass lined..... ....Per dozen, $15 00

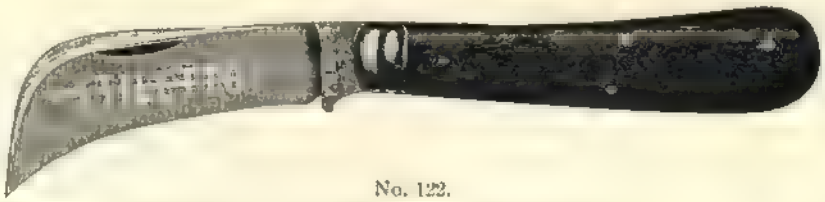


No. 1289.

**No. 1289**—Budding. One blade, half crocus polished. Buffalo horn handle, ivory end. Brass lined. German silver bolster...Per dozen, $12.00

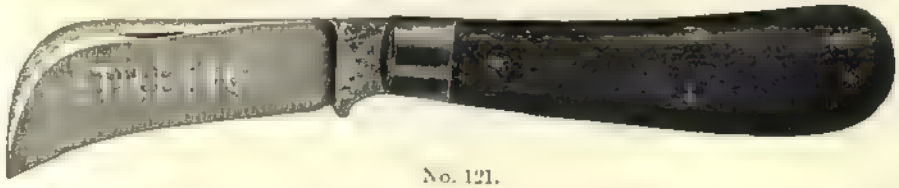
No. 2479.

**No. 2479**—Pruning. Two blades, glazed. Stag handle. Iron lined. Polished steel cap and bolster..... ...Per dozen, $15.00



No. 122.

**No. 122**—Pruning. One blade, glazed Ebony handle Brass lined Polished steel bolster..... Per dozen, $7.00



No. 121.

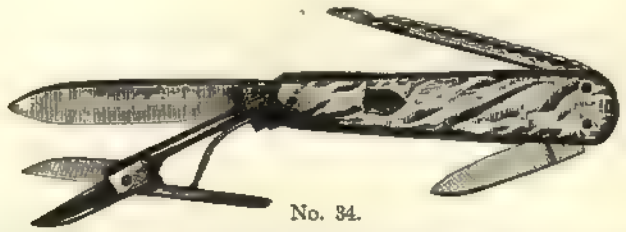
**No. 121**—Pruning. One blade, glazed. Ebony handle. Iron lined. Polished steel bolster..... .Per dozen, $8 00
**No. 113**— " " " " Cocoa " " " " " " " ..... " 8.00

One half-dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

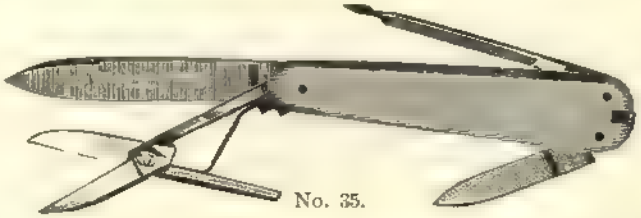
## STILETTO

Fully Warranted.



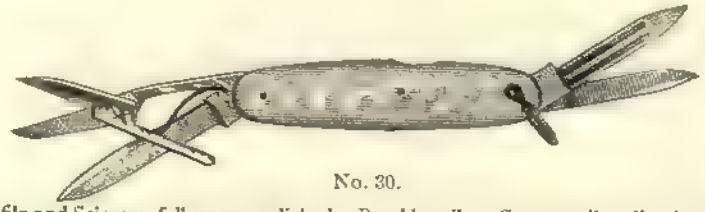
No. 34.

**No. 33**—Two blades, Scissors, Nail file, Tweezers and Toothpick, full crocus polished. Stag handle. German silver lined, engraved edges ..... Per dozen, $30 00
**No. 34**—Two blades, Scissors, Nail file, Tweezers and Toothpick, full crocus polished. Pearl handle. German silver lined, engraved edges ..... " 48.00
**No. 36**—Same as No. 34, one-fourth larger. ..... " 60 00



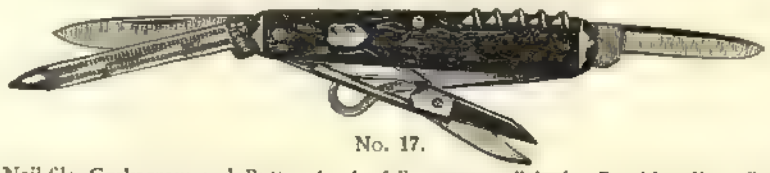
No. 35.

**No. 35**—Two blades, Scissors, Nail file, Tweezers and Toothpick, full crocus polished. Pearl handle. German silver lined, engraved edges.. ..... Per dozen, $54 00



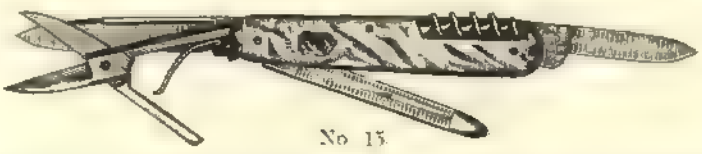
No. 30.

**No. 30**—Two blades, French nail file and Scissors, full crocus polished. Pearl handle. German silver lined, engraved edges..Per dozen, $36 00



No. 17.

**No. 16**—Two blades, Scissors, Nail file, Corkscrew and Button hook, full crocus polished Pearl handle German silver lined, engraved edges. German silver tips..... Per dozen, $48.00
**No. 17**—Two blades, Scissors, Nail file, Corkscrew and Button hook, full crocus polished. Stag handle. German silver lined, engraved edges. German silver tips.. ..... " 36 00



No. 15.

**No. 15**—Two blades, Scissors, Nail file and Corkscrew, full crocus polished Pearl handle. German silver lined, engraved edges. German silver tips..... Per dozen, $42.00

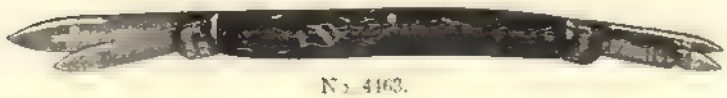
One-half dozen in box. Cuts, three-quarter size.

PACIFIC HARDWARE & STEEL COMPANY

# POCKET KNIVES.

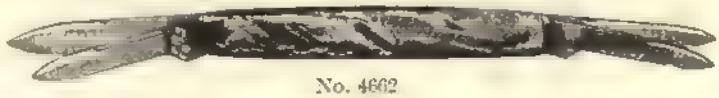
## STILETTO

Fully Warranted.



No. 4463.

**No. 4463**—Four blades, full crocus polished. English patent stag handle. Brass lined. German silver tips. Per dozen, $21 00
**No. 4563**— " " " " " Shell handle. Brass lined. German silver tips. " 24.00
**No. 4663**— " " " " " Pearl " " " " " " " 24 00
**No. 4863**— " " " " " Ivory " " " " " " " 21.00

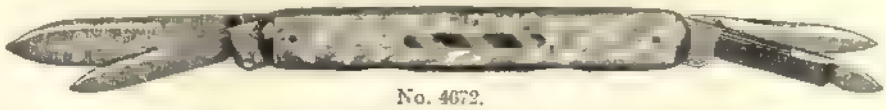


No. 4662

**No. 4462**—Four blades, full crocus polished English patent stag handle Brass lined, engraved edges German silver tips Per dozen, $21 00
**No. 4662**— " " " " " Pearl handle. Brass lined, engraved edges. German silver tips. " 27 00

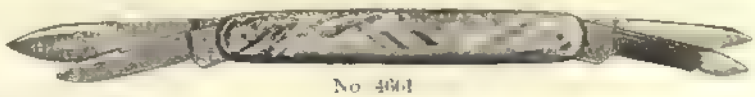
No. 4457.

**No. 4457**—Four blades, full crocus polished. English patent stag handle. Brass lined. German silver tips. Per dozen, $21 00
**No. 4657**— " " " " " Pearl handle. Brass lined. German silver tips. " 30 00



No. 4672.

**No. 4472**—Four blades, full crocus polished. English patent stag handle Brass lined. German silver tips. Per dozen, $21 00
**No. 4672**— " " " " " Pearl handle. Brass lined. German silver tips. " 30.00

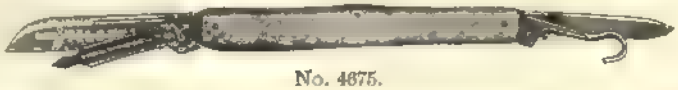


No. 4661

**No. 4661**—Four blades, full crocus polished. Pearl handle. Brass lined. Per dozen, $27.00

No. 4673.

**No. 4673**—Four blades, full crocus polished. Pearl handle. Brass lined. Per dozen, $30 00



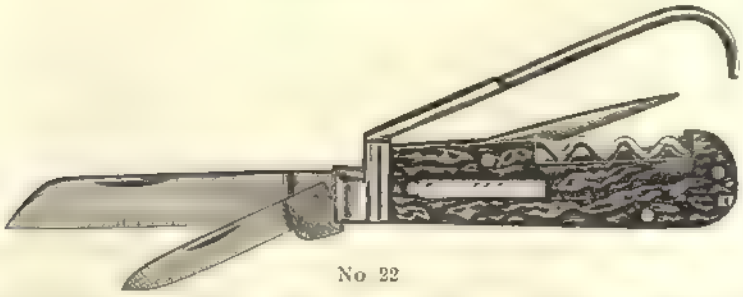
No. 4675.

**No. 4675**—Two blades, Glove buttoner and French nail file, full crocus polished Pearl handle. Brass lined German silver tips. Per dozen, $24 00
One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

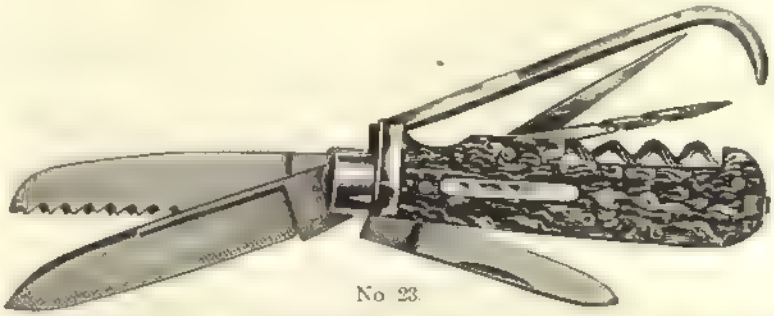
## STILETTO

Fully Warranted.



No 22

**No. 22**—Two blades Corkscrew, Punch, Hoof cleaner Screw-driver Pick and Tweezers, full crocus polished. Stag handle. Steel lined. Polished steel bolster. .....Per dozen, $36.00



No 23

**No. 23**—Two blades, Saw, Fleam, Punch, Hoof cleaner, Corkscrew, Gimlet, Nutcrack, Screw-driver, Pick and Tweezers, full crocus polished. Stag handle. Steel lined. Polished steel bolster.....Per dozen, $42.00

No. 1199.

**No. 1199**—Electrician's, spring back One blade glazed Cocoa handle Brass lined German silver cap ..... ..... .. Per dozen, $11.00

No. 2299

**No. 2299**—Electrician's. Two blades, glazed Ivory handle Brass lined German silver cap and bolster..... .....Per dozen, $12.00

No. 146.

**No. 146**—Spring back One blade, full crocus polished. Stag handle. Brass lined, German silver bolster. ..... .....Per dozen, $15.00

One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

## STILETTO

Fully Warranted

No. 127.

**No. 127**—Barlow. One blade, glazed Stained bone handle Steel lined. Polished steel bolster ..... Per dozen, $8 00

No. 128

**No. 128**—One blade, glazed. Ebony handle. Steel lined Polished steel cap and bolster..... ... ... Per dozen, $13.00

No. 149

**No. 149**—Press button One blade, glazed Stag handle Steel lined German silver bolster . . .. .. . . . ..Per dozen, $15 00
**No. 169**— " " " " " Pearl " " " " " " " ..... " 72.00

No. 150.

**No. 150**– Press button One blade glazed Stag handle. Steel lined. German silver bolster and guard . . .. Per dozen, $18 00
One-half dozen in box. Cuts, three-quarter size

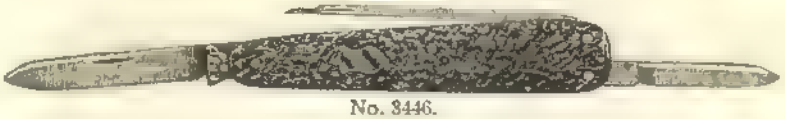
# POCKET KNIVES.

## STILETTO

Fully Warranted.

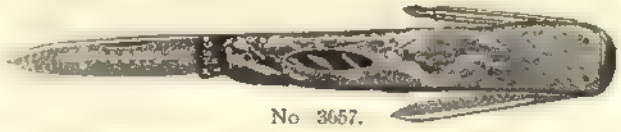
No. 2401.

**No. 2401**—One blade and French nail file. Stag handle German silver lined, engraved back German silver tips Per dozen, $15 00
**No. 2601**— " " " " " " Pearl " " " " " " " " " " " " 24.00



No. 3446.

**No. 3446**—Two blades and French nail file, full crocus polished. English patent stag handle German silver lined, engraved edges. German silver tips.....Per dozen, $24.00
**No. 3646**—Two blades and French nail file, full crocus polished. Pearl handle German silver lined, engraved edges. German silver tips... 30 00
**No. 3846**—Two blades and French nail file, full crocus polished Ivory handle. German silver lined, engraved edges German silver tips... 24 00

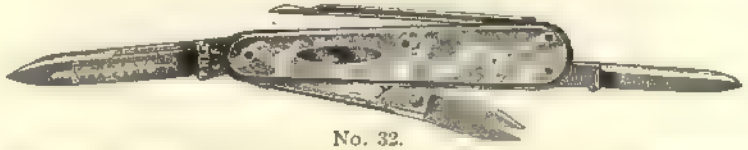


No. 3657.

**No. 3657**—Two blades and French nail file, full crocus polished. Pearl handle. Brass lined. German silver tips .....Per dozen, $30.00

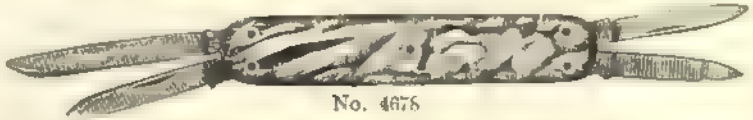
No. 4665.

**No. 4665**—Three blades and French nail file, full crocus polished. Pearl handle. Brass lined. German silver tips ..Per dozen, $42 00



No. 32.

**No. 32**—Two blades, Scissors and French nail file full crocus polished Pearl handle. German silver lined, engraved edges. .....Per dozen, $36 00
**No. 4671**—Same as No. 32, one-fourth larger Brass lined... 48 00



No. 4678.

**No. 4678**—Four Blades, full crocus polished. Pearl handle German silver lined, engraved edges.. Per dozen, $33.00

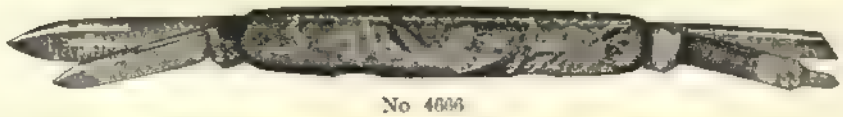
No. 31.

**No. 31**—One blade, Scissors and French nail file, full crocus polished. Pearl handle German silver lined, engraved edges .Per dozen, $36 00
One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

## STILETTO

Fully Warranted.



No 4666

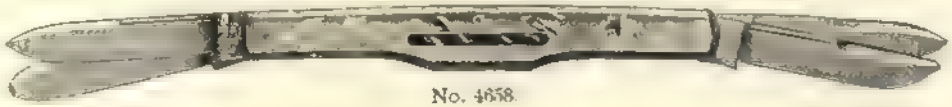
**No. 4666**—Four blades, full crocus polished. Pearl handle. Brass lined. Concealed springs ..... Per dozen, $48 00

No. 4568.

| | | | |
|---|---|---|---|
| **No. 4486**—Four blades, full crocus polished. | Genuine stag handle. Brass lined. Concealed springs | Per dozen, | $43.00 |
| **No. 4568**— " " " " " | Shell handle. Brass lined. Concealed springs | " | 42 00 |
| **No. 4668**— " " " " " | Pearl " " " " " | | 42 00 |

No. 4567.

| | | | |
|---|---|---|---|
| **No. 4467**—Four blades, full crocus polished. | Genuine stag handle Brass lined. Concealed springs | Per dozen, | $36 00 |
| **No. 4567**— " " | Shell handle. Brass lined. Concealed springs | " | 48 00 |
| **No. 4667**— " " | Pearl " " " | " | 48 00 |



No. 4658

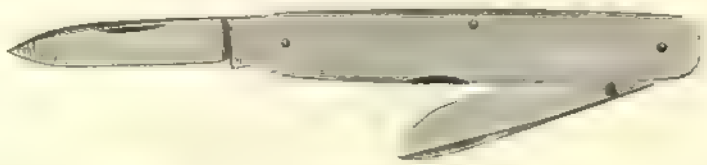
**No. 4658**—Four blades, full crocus polished. Pearl handle. Brass lined..... Per dozen, $42.00

No. 201.

**No. 201**—Press button. Two blades, full crocus polished. Sterling silver handle German silver lined..... Per dozen, $30 00

No 241.

| | | | |
|---|---|---|---|
| **No. 241**—Press button. Two blades, full crocus polished | Stag handle Brass lined | Per dozen, | $14 00 |
| **No. 251**— " " " " " " " | Shell " " " | " | 15 00 |
| **No. 261**— " " " " " " " | Pearl " " " | " | 30 00 |



No 2815

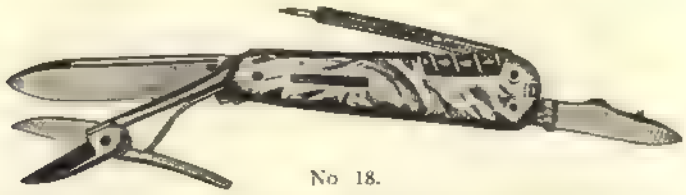
**No. 2815**—Two large blades, full crocus polished Ivory handle. Brass lined ..... Per dozen, $15 00

Nos. 4666 to 4667, one-quarter dozen; balance, one-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

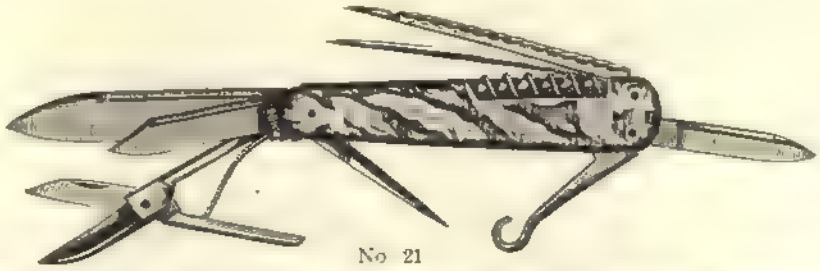
## STILETTO

Fully Warranted.



No. 18.

**No. 18**—Two blades, Scissors, Nail file, Corkscrew, Ear spoon and Toothpick, full crocus polished. Pearl handle German silver lined, engraved edges.....Per dozen, $42.00
**No. 19**—Same as No. 18, one-sixth larger..... " 60 00
**No. 20**— " " " 18, one-third " ..... " 72 00

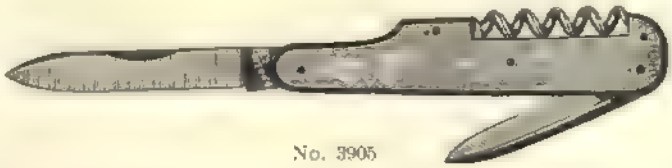


No. 21

**No. 21**—Three blades, Scissors, Nail file, Button hook, Corkscrew, Pipe stoker, Nut pick, Ear spoon and Toothpick, full crocus polished. Pearl handle. German silver lined, engraved edges.....Per dozen, $84.00

No. 3478.

**No. 3478**—Two blades and Corkscrew, full crocus polished. Stag handle. Brass lined. German silver bolster.....Per dozen, $24.00



No. 3905

**No. 3905**—Two blades and Corkscrew, full crocus polished. Aluminum handle, engraved.....Per dozen, $27.00

No. 4488.

**No. 4488**—Two blades, Corkscrew and Wire hook, full crocus polished. Stag handle. Brass lined. German silver cap in 1 bolster.....Per dozen, $24 00

One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

## STILETTO

Fully Warranted.

No. 4463.

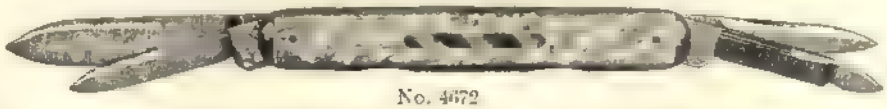
**No. 4463**—Four blades, full crocus polished. English patent stag handle. Brass lined. German silver tips. Per dozen, $21 00
**No. 4563**— " " " " " Shell handle. Brass lined. German silver tips. " 24.00
**No. 4663**— " " " " " Pearl " " " " " " " 24 00
**No. 4863**— " " " " " Ivory " " " " " " " 21.00

No. 4662

**No. 4462**—Four blades, full crocus polished English patent stag handle Brass lined, engraved edges German silver tips Per dozen, $21 00
**No. 4662**— " " " " " Pearl handle. Brass lined, engraved edges. German silver tips. " 27 00

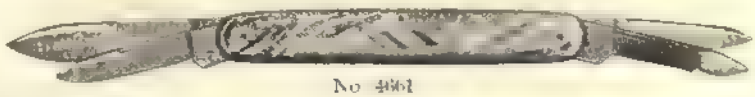
No. 4457.

**No. 4457**—Four blades, full crocus polished English patent stag handle. Brass lined. German silver tips. Per dozen, $21 00
**No. 4657**— " " " " " Pearl handle. Brass lined. German silver tips. " 30.00



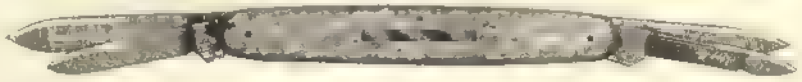
No. 4672

**No. 4472**—Four blades, full crocus polished. English patent stag handle. Brass lined. German silver tips. Per dozen, $21 00
**No. 4672**— " " " " " Pearl handle. Brass lined. German silver tips " 30 00



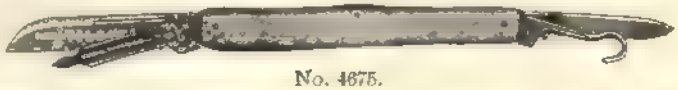
No 4661

**No. 4661**—Four blades, full crocus polished. Pearl handle. Brass lined. Per dozen, $27.00



No. 4673.

**No. 4673**—Four blades, full crocus polished. Pearl handle. Brass lined. Per dozen, $30.00



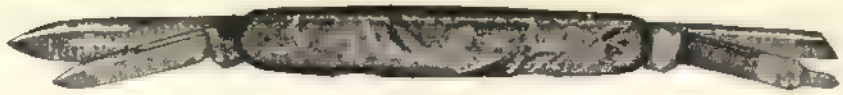
No. 4675.

**No. 4675**—Two blades, Glove buttoner and French nail file, full crocus polished Pearl handle. Brass lined German silver tips Per dozen, $24.00
One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

## STILETTO

Fully Warranted.



No 4666

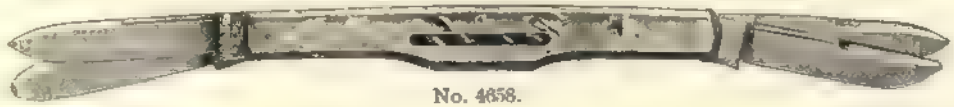
**No. 4666**—Four blades, full crocus polished. Pearl handle. Brass lined. Concealed springs ..... Per dozen, $48 00

No. 4568

**No. 4468**—Four blades, full crocus polished. Genuine stag handle. Brass lined. Concealed springs . . . . . Per dozen, $43.00
**No. 4568**— " " " " " Shell handle. Brass lined. Concealed springs . . . . . " 42 00
**No. 4668**— " " " " " Pearl " " " " " ... .. .. . 42 00

No. 4567

**No. 4467**—Four blades, full crocus polished. Genuine stag handle Brass lined. Concealed springs . ..... .. .... .Per dozen, $36 00
**No. 4567**— " " " " " Shell handle Brass lined. Concealed springs . . . . " 48 00
**No. 4667**— " " Pearl " " " .. . . " 48 00



No. 4658.

**No. 4658**—Four blades, full crocus polished. Pearl handle. Brass lined. .. ... ..... .. ..... ..... ... ..... . .. ...Per dozen $42 00

No. 201.

**No. 201**—Press button. Two blades, full crocus polished. Sterling silver handle. German silver lined.....Per dozen, $30 00

No 241.

**No. 241**—Press button. Two blades, full crocus polished Stag handle. Brass lined ..... ..... ..... ..... ..... ....Per dozen. $14 00
**No. 251**— " " " " " " " Shell " " " .. ..... . .... . . .. .. . " 15 00
**No. 261**— " " " " " " " Pearl " " " ..... .... . . .. .. . . " 30 00

No 2815

**No. 2815**—Two large blades, full crocus polished. Ivory handle. Brass lined ..... ..... ..... ..... ...Per dozen, $15 00

Nos 4666 to 4667, one-quarter dozen, balance, one-half dozen in box. Cuts, three-quarter size.

PACIFIC HARDWARE & STEEL COMPANY

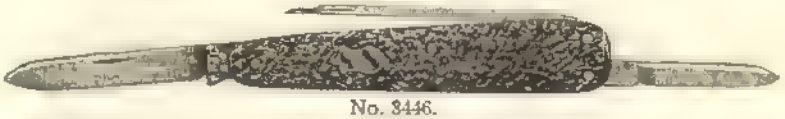
# POCKET KNIVES.

## STILETTO

Fully Warranted.

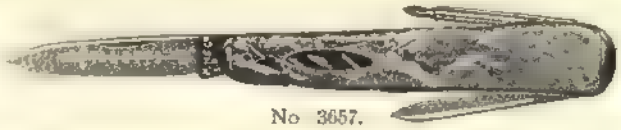
No. 2401.

**No. 2401**—One blade and French nail file. Stag handle. German silver lined, engraved back. German silver tips . Per dozen, $15 00
**No. 2801**— " " " " " " Pearl " " " " " " " " " " 24.00



No. 3446.

**No. 3446**—Two blades and French nail file, full crocus polished. English patent stag handle German silver lined, engraved edges. German silver tips.....Per dozen, $24.00
**No. 3646**—Two blades and French nail file, full crocus polished. Pearl handle German silver lined, engraved edges. German silver tips..... " 30.00
**No. 3540**—Two blades and French nail file, full crocus polished Ivory handle German silver lined engraved edges German silver tips..... " 24.00

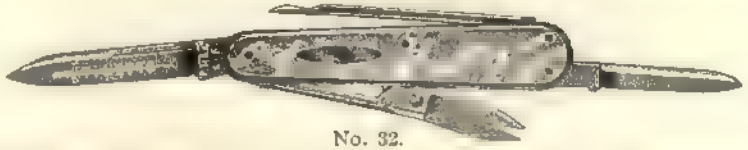


No 3657.

**No. 3657**—Two blades and French nail file, full crocus polished. Pearl handle. Brass lined. German silver tips. ... .Per dozen $30 00

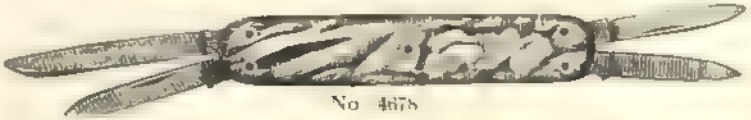
No. 4665

**No. 4665**—Three blades and French nail file, full crocus polished. Pearl handle. Brass lined. German silver tips . ..Per dozen, $42.00



No. 32.

**No. 32**—Two blades, Scissors and French nail file full crocus polished Pearl handle. German silver lined, engraved edges.....Per dozen, $36 00
**No. 4671**—Same as No. 32, one-fourth larger Brass lined... 48 00



No 4678

**No. 4678**—Four blades, full crocus polished. Pearl handle German silver lined, engraved edges. Per dozen, $33.00

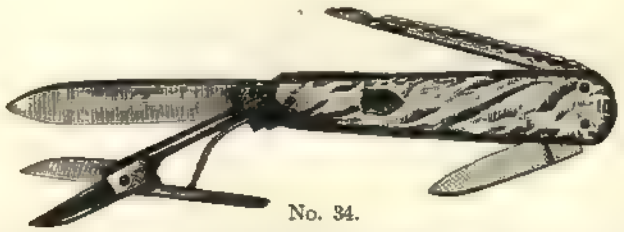
No. 31.

**No. 31**—One blade, Scissors and French nail file, full crocus polished. Pearl handle German silver lined, engraved edges Per dozen, $36 00
One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

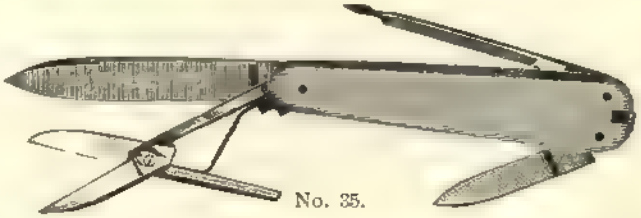
## STILETTO

Fully Warranted.



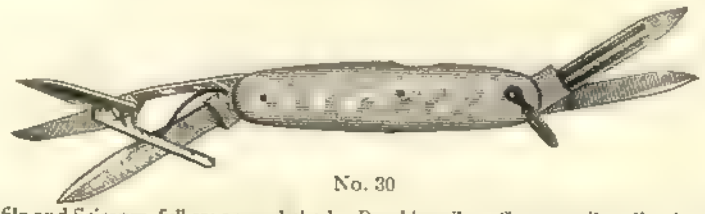
No. 34.

**No. 33**—Two blades, Scissors, Nail file, Tweezers and Toothpick, full crocus polished. Stag handle. German silver lined, engraved edges.....Per dozen, $30 00
**No. 34**—Two blades, Scissors, Nail file, Tweezers and Toothpick, full crocus polished. Pearl handle. German silver lined, engraved edges ..... " 48 00
**No. 36**—Same as No. 34, one-fourth larger. ..... " 60 00



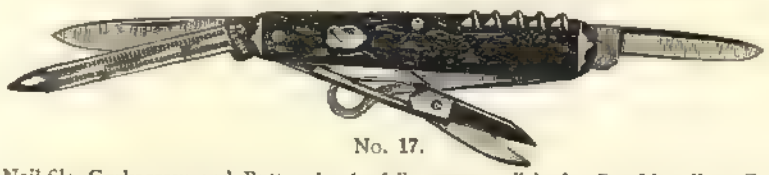
No. 35.

**No. 35**—Two blades, Scissors, Nail file, Tweezers and Toothpick, full crocus polished. Pearl handle. German silver lined, engraved edges.. .....Per dozen, $54 00



No. 30

**No. 30**—Two blades, French nail file and Scissors, full crocus polished. Pearl handle. German silver lined, engraved edges..Per dozen, $36 00



No. 17.

**No. 16**—Two blades, Scissors, Nail file Corkscrew and Button hook, full crocus polished. Pearl handle. German silver lined, engraved edges. German silver tips.....Per dozen, $48.00
**No. 17**—Two blades, Scissors, Nail file, Corkscrew and Button hook, full crocus polished. Stag handle. German silver lined, engraved edges. German silver tips..... " 36.00

No. 15

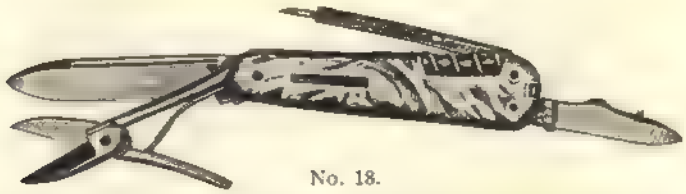
**No. 15**—Two blades, Scissors, Nail file and Corkscrew, full crocus polished. Pearl handle. German silver lined, engraved edges. German silver tips.. .....Per dozen, $42 00

One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

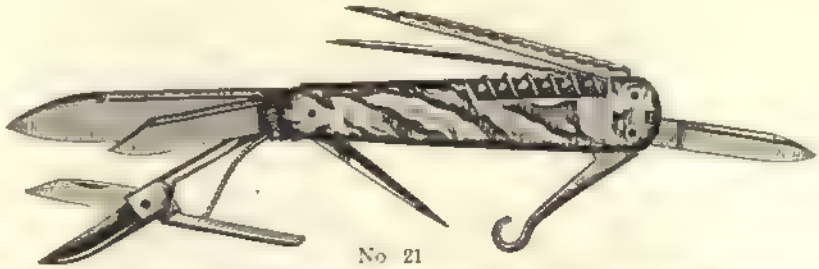
## STILETTO

Fully Warranted.



No. 18.

**No. 18**—Two blades, Scissors, Nail file, Corkscrew, Ear spoon and Toothpick, full crocus polished. Pearl handle German silver lined, engraved edges.....Per dozen, $42.00
**No. 19**—Same as No 18, one-sixth larger " 60 00
**No. 20**— " " " 18, one-third " " 72 00

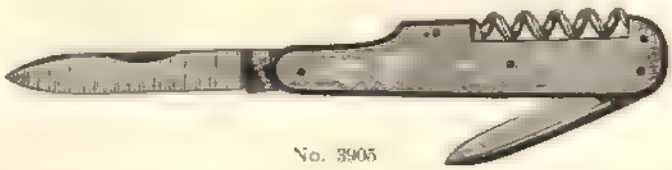


No 21

**No. 21**—Three blades, Scissors, Nail file, Button hook, Corkscrew, Pipe stoker, Nut pick, Ear spoon and Toothpick, full crocus polished. Pearl handle. German silver lined, engraved edges.....Per dozen, $84 00

No. 3478.

**No. 3478**—Two blades and Corkscrew, full crocus polished. Stag handle. Brass lined German silver bolster ...Per dozen, $24.00



No. 3905

**No. 3905**—Two blades and Corkscrew, full crocus polished. Aluminum handle, engraved.....Per dozen, $27.00

No. 4488.

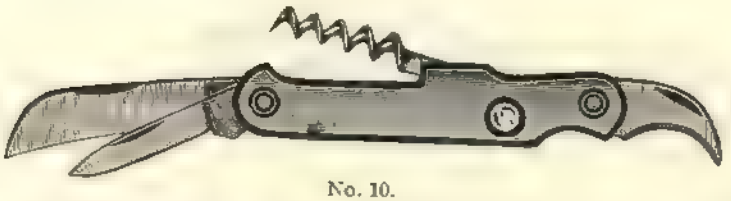
**No. 4488**—Two blades, Corkscrew and Wire hook, full crocus polished Stag handle Brass lined. German silver cap and bolster ..Per dozen, $24.00

One-half dozen in box Cuts, three-quarter size

# POCKET KNIVES.

## STILETTO

Fully Warranted



No. 10.

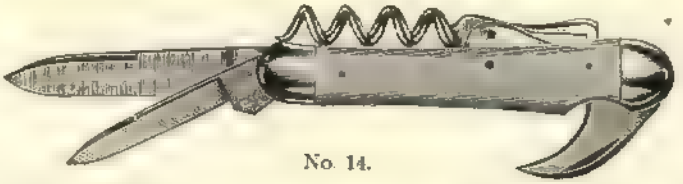
**No. 10**—Two blades, Corkscrew, Wire hook and Cigar cutter, full crocus polished. German silver handle ... ..... .... Per dozen, $18.00

No. 11.

**No. 11** Two blades, Corkscrew and Wire hook, full crocus polished. Fancy metal handle German silver lined .... . Per dozen, $24 00

No. 12.

**No. 12**—Two blades, Corkscrew and Wire hook, full crocus polished. Pearl handle Brass lined German silver cap and bolster..Per dozen, $30.00
**No. 13**— " " " " " " " " " " Stag " " " " " " " " " " 21.00



No. 14.

**No. 14**—Two blades, Corkscrew and Wire hook, full crocus polished Pearl handle. Brass lined. German silver cap and bolster..... .. .... Per dozen, $48.00

No. 25.

**No. 24**—Two blades, Corkscrew, Punch, Hoof cleaner, Pick and Tweezers, full crocus polished. Pearl handle. Brass lined. German silver bolster.....Per dozen, $36 00

**No. 25**—Two blades, Corkscrew, Punch, Hoof cleaner, Pick and Tweezers, full crocus polished. Stag handle Brass lined. German silver bolster..... " 30 00

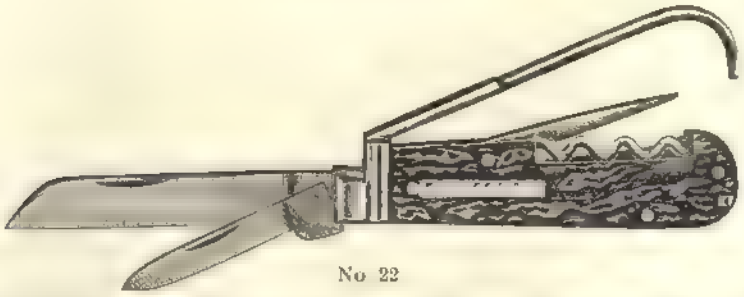
One-half dozen in box. Cuts, three-quarter size.

PACIFIC HARDWARE & STEEL COMPANY

# POCKET KNIVES.

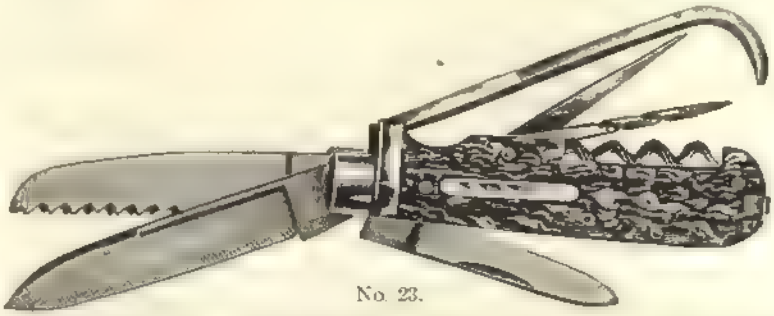
## STILETTO

Fully Warranted.



No. 22

**No. 22**—Two blades Corkscrew, Punch Hoof cleaner Screw-driver Pick and Tweezers, full crocus polished. Stag handle. Steel lined. Polished steel bolster. .....Per dozen, $36.00



No. 23.

**No. 23**—Two blades, Saw, Fleam, Punch, Hoof cleaner, Corkscrew, Gimlet, Nutcrack, Screw-driver, Pick and Tweezers, full crocus polished. Stag handle. Steel lined. Polished steel bolster.....Per dozen, $42.00

No. 1199.

**No. 1199**—Electrician's, spring back One blade, glazed Cocoa handle Brass lined German silver cap..... ..... .. Per dozen, $11.00

No. 2299

**No. 2299**—Electrician's Two blades, glazed Ebony handle Brass lined German silver cap and bolster..... .....Per dozen, $12 00

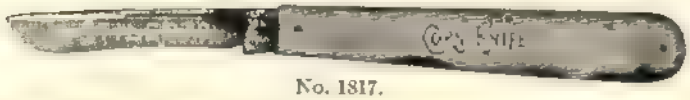
No 146.

**No. 146**—Spring back. One blade, full crocus polished. Stag handle Brass lined. German silver bolster..... ..... .....Per dozen, $15.00
One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

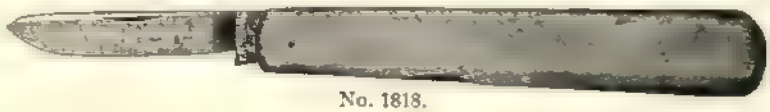
## STILETTO

Fully Warranted.



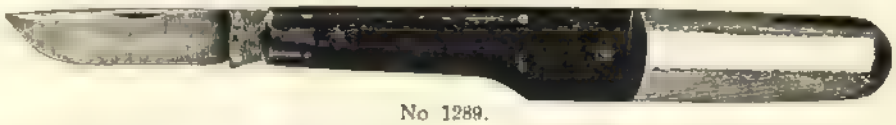
No. 1817.

**No. 1817**—Corn One blade, full crocus polished. Ivory handle. Brass lined..... Per dozen, $12.00



No. 1818.

**No. 1818**—Budding. One blade, glazed. Ivory handle. Brass lined..... Per dozen, $15 00

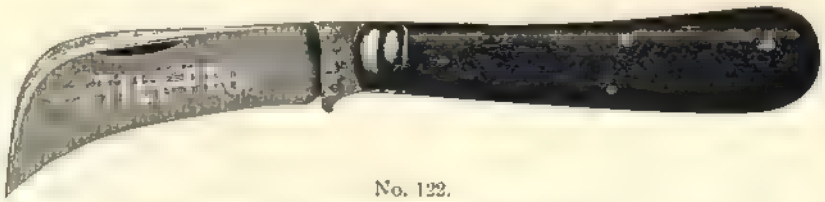


No 1289.

**No. 1289**—Budding. One blade, half crocus polished. Buffalo horn handle, ivory end. Brass lined. German silver bolster...Per dozen, $12.00

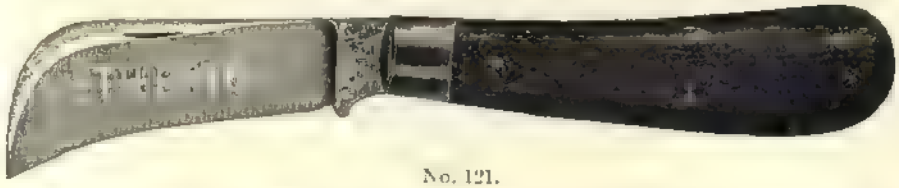
No 2479.

**No. 2479**—Pruning. Two blades, glazed Stag handle Iron lined Polished steel cap and bolster..... Per dozen, $15 00



No. 122.

**No. 122**—Pruning. One blade, glazed Ebony handle Brass lined Polished steel bolster..... Per dozen, $7.00



No. 121.

**No. 121**—Pruning One blade, glazed. Ebony handle. Iron lined. Polished steel bolster..... Per dozen, $8 00
**No. 118**— " " " " Cocoa " " " " " " " " " " 8 00

One half-dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

## STILETTO

Fully Warranted

No. 127.

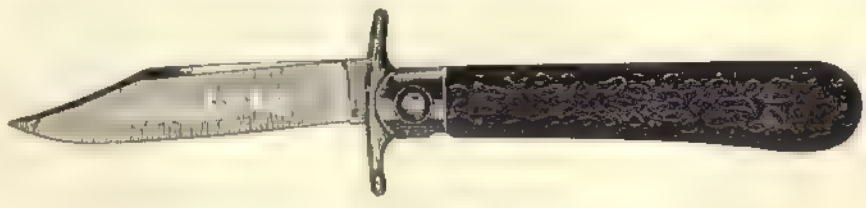
**No. 127**—Barlow. One blade, glazed. Stained bone handle. Steel lined. Polished steel bolster. Per dozen, $8 00

No 128

**No. 128**—One blade, glazed. Ebony handle. Steel lined. Polished steel cap and bolster..... Per dozen, $13.00

No. 149

**No. 149**—Press button. One blade, glazed. Stag handle. Steel lined. German silver bolster.. ..Per dozen, $15 00
**No. 169**— " " " " Pearl " " " " " 72.00



No. 150.

**No. 150**—Press button. One blade, glazed. Stag handle. Steel lined. German silver bolster and guard.....Per dozen, $18 00
One-half dozen in box. Cuts, three-quarter size

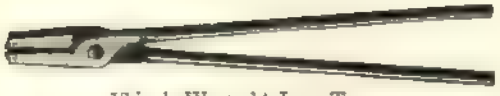
# FARMERS' KIT OF TOOLS.

Farmers' Knife.

Cast Steel Cold Chisel.

Cast Steel Hot Chisel.

Stock and Dies, cutting bolts ⅜ to ⅝ inch.

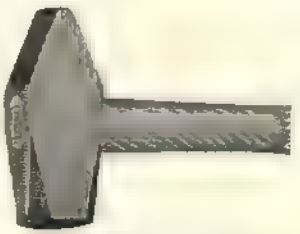


18-inch Wrought Iron Tongs.

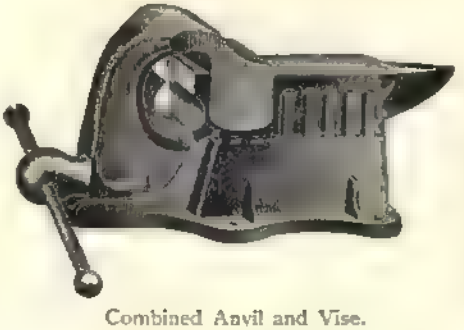
Farriers' Adze Eye Hammer.

12-inch Cast Steel Blacksmiths' Pincers.

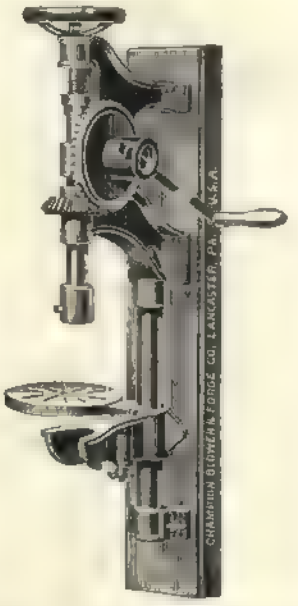
18-inch diameter Steel Forge, with shield.



Blacksmiths' Hammer.



Combined Anvil and Vise.



Champion Drill. Drills 5/16 to ¼-inch hole to center of a 14-inch circle

The above outfit is particularly adapted for Farmers' use. All tools are of best quality and fully guaranteed..... Complete, $25 00

Weight, about 210 lbs

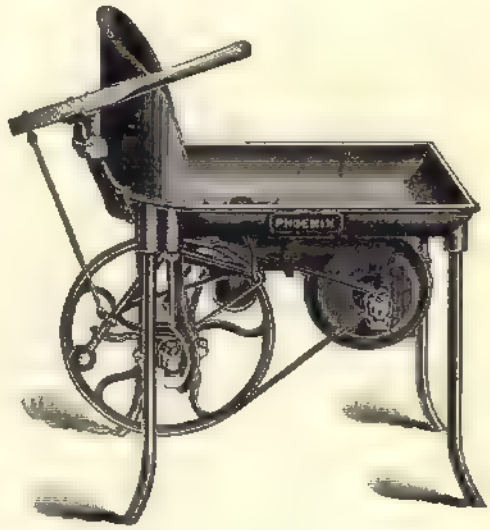
# PHOENIX FORGES.

## BLACKSMITHS'.

No. 1.

**No. 1**—With hood. Hearth, 32x45 inches. Height, 30 inches. Fan, 16 inches diameter Without water tank. Weight, 350 lbs . . . . . Each, $50 00

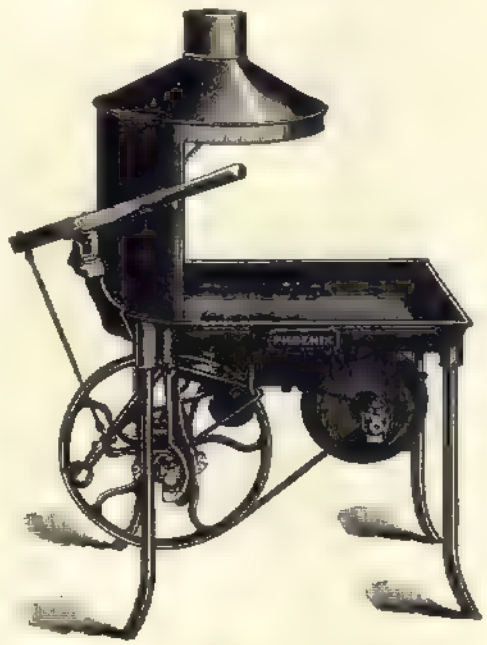
## BOILERMAKERS'.




No. 2.

**No. 2**—With shield. Hearth, 23x35 inches. Height, 30 inches. Fan, 12½ inches diameter Weight, 120 lbs. . . . . Each, $36 00

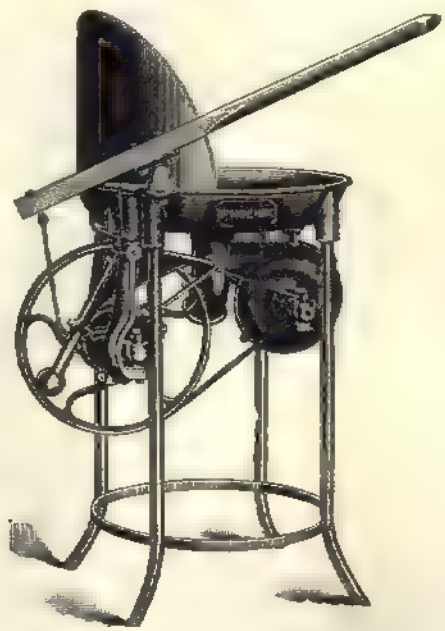
## MACHINISTS'.




No. 3.

**No. 3**—With half hood. Hearth, 23x35 inches. Height, 30 inches. Fan, 12½ inches diameter. Weight, 130 lbs. . . . . Each, $40.00

## RIVET.

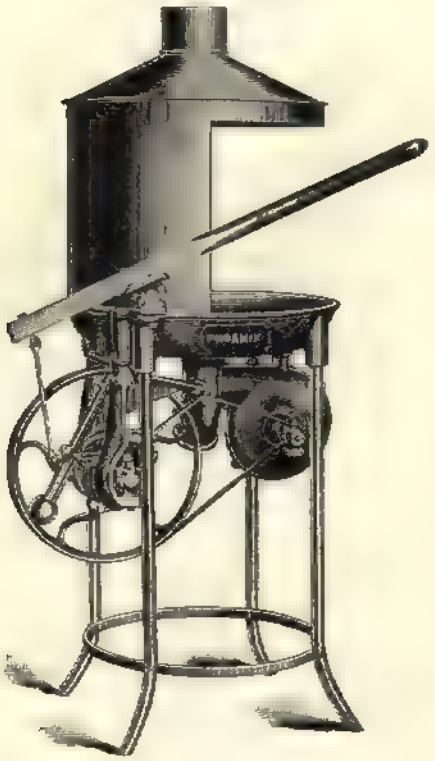


No. 5.

**No. 5**—With shield. Hearth, 22 inches diameter. Height, 33 inches. Fan, 10 inches diameter. Weight, 80 lbs. . . . . Each, $24.00

# PHOENIX FORGES.

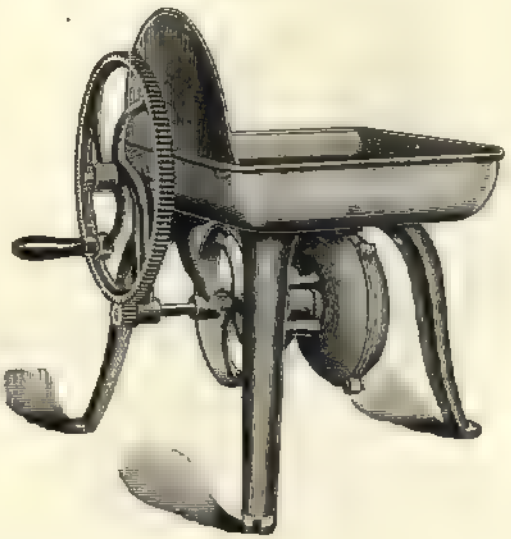
## TOOLMAKERS'.



No. 6.

**No. 6**—With half hood Hearth 22 inches diameter.
Height, 33 inches. Fan, 10 " "
Weight, 85 lbs.....Each, $27.00

## BENCH.



No. 21.

Especially intended for light work, being very compact and easily moved, having short legs, so when used should be set on a box or bench. Will produce a welding heat on 1-inch iron in ten minutes. A very convenient forge for prospectors.

**No. 21**—With shield. Hearth, 14x17 inches. Fan 7 inches diameter. Weight, 45 lbs.....Each, $16.00

**No. 22**—With half hood. Hearth, 14x17 inches. Fan, 7 inches diameter. Weight, 55 lbs. ...Each, 18 00

No. 150.

# CHAMPION FORGES.

## AGRICULTURAL.

**No. 150**—With shield. Hearth, 18 inches diameter, 4 inches deep. Height 30 inches. Fan, 8 inches diameter. Weight, 65 lbs .....Each, $14 00

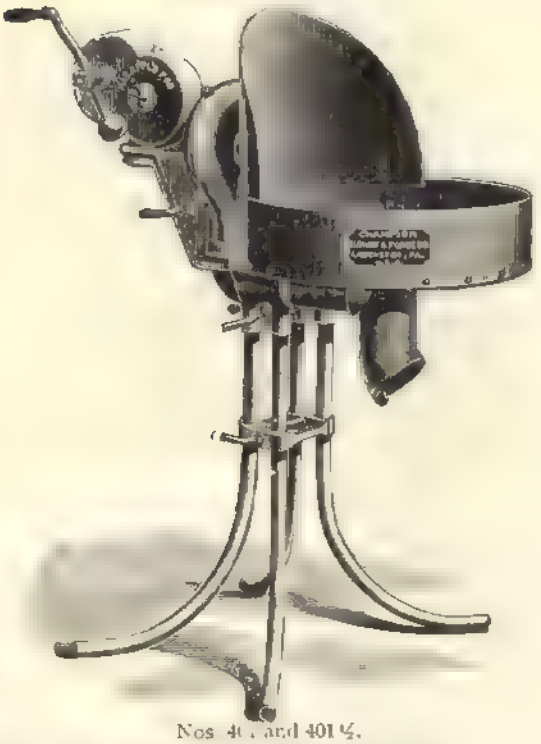
**No. 151**—With half hood. Hearth, 18 inches diameter, 4 inches deep. Height, 30 inches. Fan, 8 inches diameter. Weight, 70 lbs .....Each, 16.00

PACIFIC HARDWARE & STEEL COMPANY

# CHAMPION FORGES

## BALL BEARING.

### STEEL RIVET.

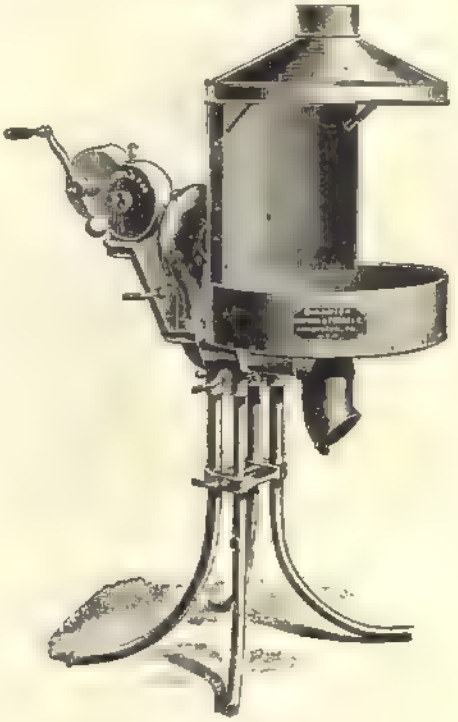


Nos. 401 and 401½.

**No. 401**—Ball bearing. With shield. Hearth, 18 inches diameter. Height, 30 inches. Fan, 9 inches diameter. Weight, 90 lbs.....Each, $35.00

**No. 401½**—Ball bearing. With shield. Hearth, 22 inches diameter. Height, 30 inches. Fan, 9 inches diameter. Weight, 100 lbs.....Each, 40 00

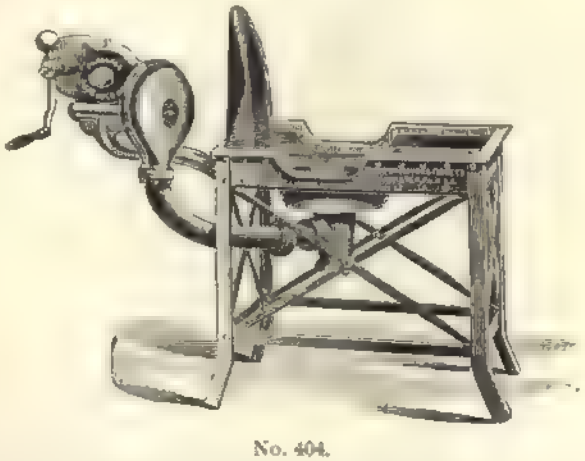
### STEEL TOOLMAKERS.



No. 402.

**No. 402**—Ball bearing. With half hood. Hearth, 18 inches diameter. Height 30 inches. Fan, 9 inches diameter. Weight, 90 lbs.....Each, $38 00

### STEEL RIVET.



No. 404.

**No. 404.**—Ball bearing. With shield. Hearth, 24x24 inches. Height, 30 inches. Fan, 9 inches diameter. Weight, 110 lbs.....Each, $45 00

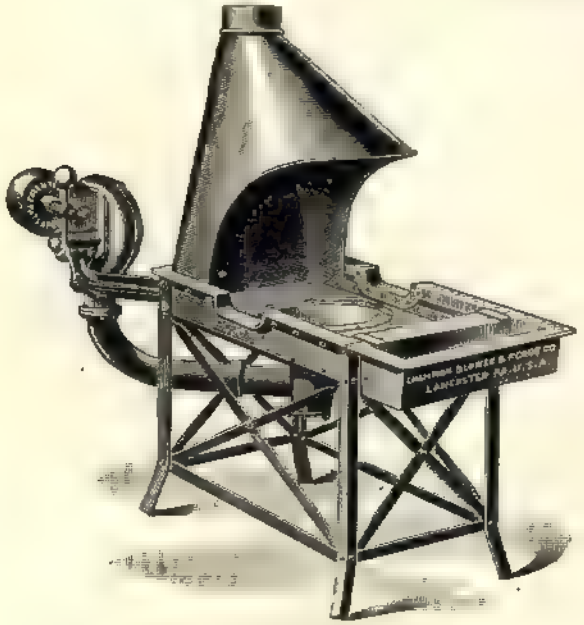
### STEEL BOILERMAKERS.

No. 406.

**No. 406**—Ball bearing. With shield. Hearth, 30x30 inches. Height, 30 inches. Fan, 10 inches diameter. Weight, 160 lbs.....Each, $55.00

# CHAMPION FORGES.

## BALL BEARING.



Nos. 408 and 409.

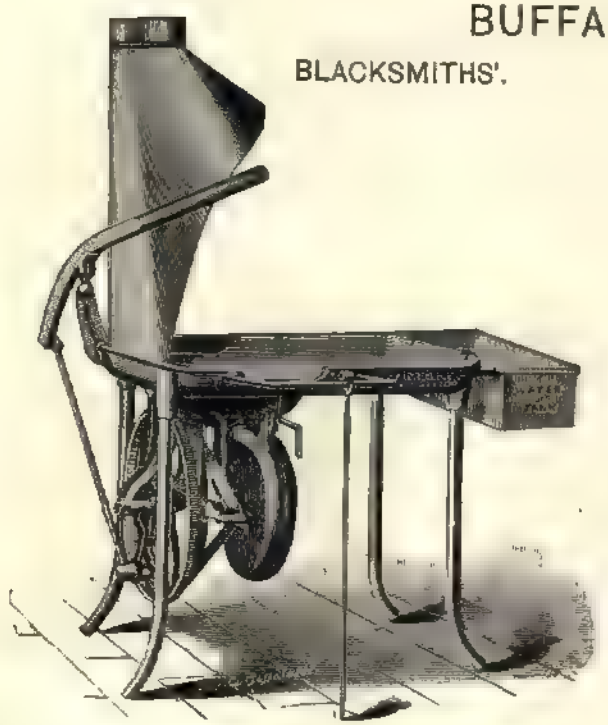
### STEEL BLACKSMITHS'.

**No. 408**—Ball bearing. With half hood. Hearth, 30x36 inches. Height, 30 inches. Fan, 12 inches diameter. Without water tank. Weight, 225 lbs.....Each, $65.00

**No. 409**—Ball bearing. With half hood. Hearth, 30x40 inches. Height, 30 inches. Fan, 12 inches diameter. Without water tank. Weight, 250 lbs.....Each, $70.00

# BUFFALO FORGES.

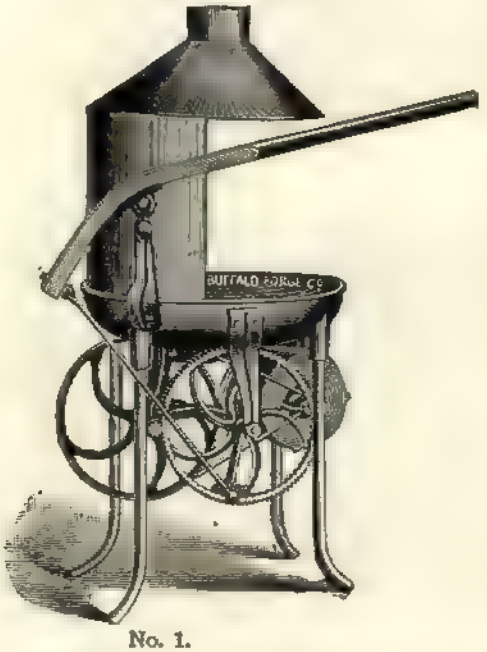
### BLACKSMITHS'.



No. 0.

**No. 0**—Hearth, 28x40 inches. Height, 30 inches. Fan, 14 inches diameter.
With water tank. Weight, 300 lbs.....Each, $54.00
Without water tank. Weight, 250 lbs..... " 50.00

### MACHINISTS'.



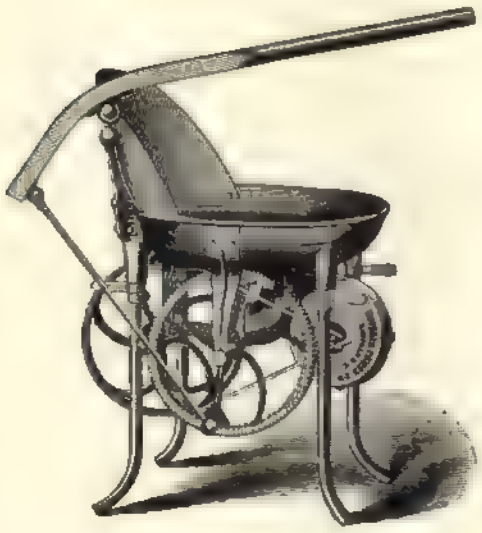
No. 1.

**No. 1**—With half open hood. Hearth, 21x27 inches. Height, 29 inches. Fan, 10 inches diameter. Weight, 140 lbs.....Each, $40.00

PACIFIC HARDWARE & STEEL COMPANY

# BUFFALO FORGES.

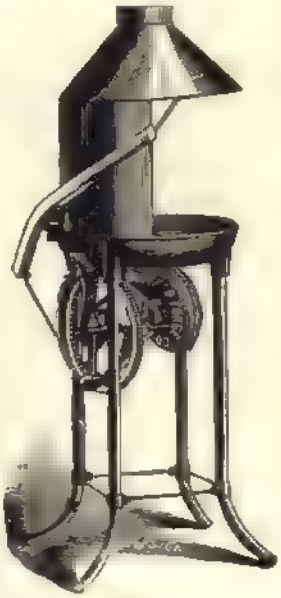
## BOILERMAKERS'.



No. 8.

**No. 8**—With shield. Hearth, 21x27 inches. Height, 29 inches. Fan, 10 inches diameter.
Weight, 140 lbs..... Each, $36.00

## TOOLMAKERS'.



No. 4.

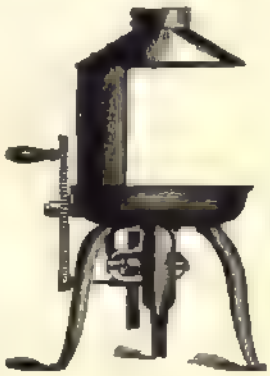
**No. 4**—With open hood. Hearth, 18 inches diameter. Height, 33 inches. Fan, 6 inches diameter.
Weight, 75 lbs..... Each, $27.00

## RIVETERS'.

No. 5.

**No. 5**—With shield. Hearth, 18 inches diameter. Height, 33 inches. Fan, 6 inches diameter
Weight, 70 lbs..... Each, $24.00

## MINERS', PROSPECTORS' AND FARMERS'.

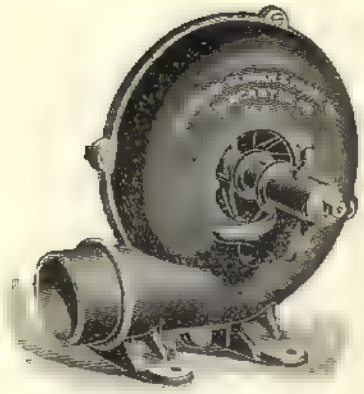


No. 8.

**No. 7**—With shield. Hearth, 15 inches diameter. Height, 15 inches. Fan, 6 inches diameter.
Weight, 40 lbs..... Each, $16.00

**No. 8**—With open hood. Hearth, 15 inches diameter. Height, 15 inches. Fan, 6 inches diameter.
Weight, 50 lbs..... Each, $18.00

# POWER BLOWERS.



## CHAMPION.

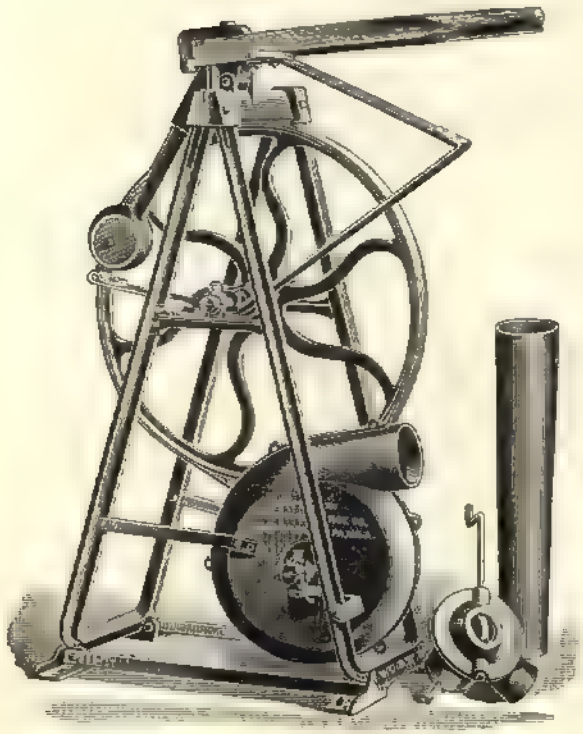
This Blower is intended for blowing fires in portable and small stationary boilers. Also for forge fires and various purposes where a small current of air is desired.

| | | | |
|---|---|---|---|
| **No. 1**—10 inches high. | Will blow one fire. Weight, 16 lbs. | Each, | $ 8 00 |
| **No. 2**—14 " " | " " two ordinary fires. Weight, 56 lbs. | " | 10.00 |
| **No. 3**—16½ " " | " " three " " 83 " | " | 12.00 |

# HAND BLOWERS.

## CHAMPION.

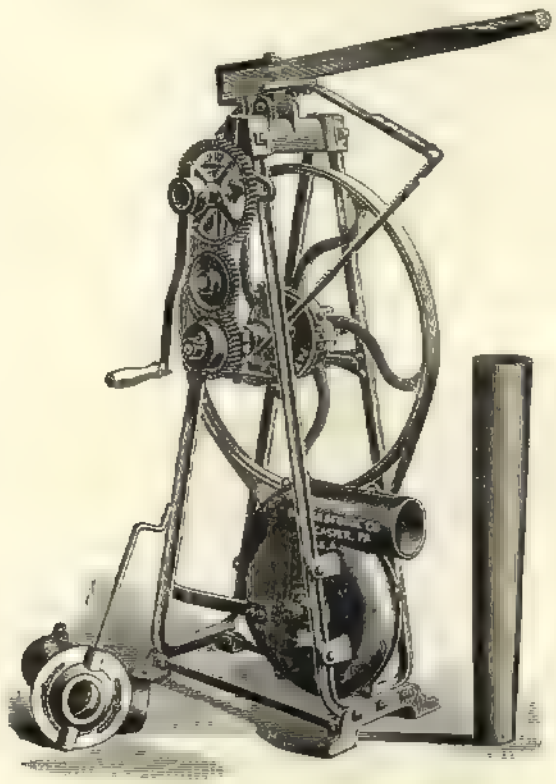
### LEVER MOTION



No. 1898.

**No. 1898**—Angle steel frame. Fan, 18 inches diameter. Fly-wheel, 26½ inches diameter. Complete with tuyere iron and piping. Weight, 191 lbs.....Each, $20.00

### LEVER AND CRANK MOTION.

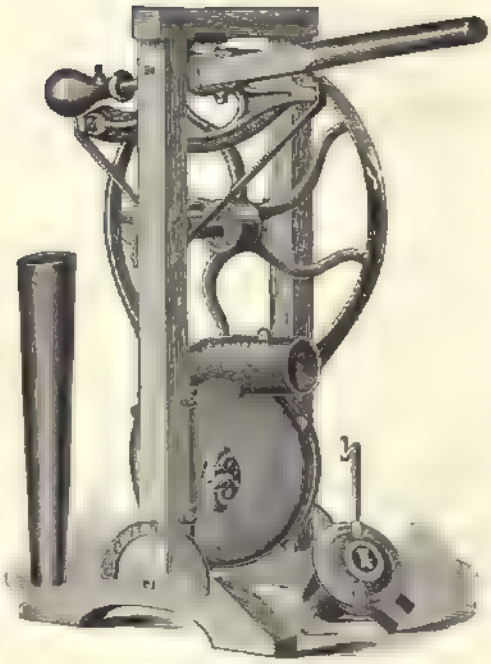


No. 4½.

**No. 4½**—Angle steel frame. Fan, 16 inches diameter. Fly-wheel, 25 inches diameter. Complete with tuyere iron and piping. Weight, 219 lbs.....Each, $27 00

# HAND BLOWERS.

## CHAMPION.



No. 1894

### No. 1894.

Lever Motion. Fan, 16 Inches Diameter. Fly-Wheel, 28 Inches Diameter

**No. 1894**—Complete with tuyere iron and piping ..... Each, $22 00
Weight, 160 lbs.

### No. 500.

Cog-geared. Fan, 12 Inches Diameter

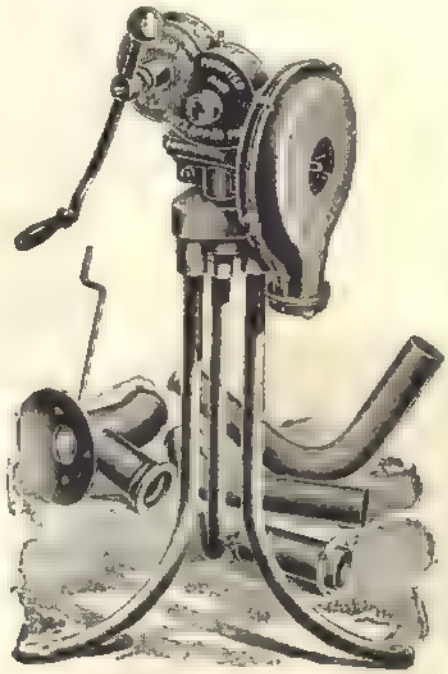
**No. 500**—Complete with tuyere iron and piping ..... Each, $25.00
Weight, 75 lbs.

### No. 400.

Ball Bearing. Fan, 12 Inches in Diameter.

**No. 400**—Complete with tuyere iron and piping ..... Each, $37.00
Weight 75 lbs.

No. 500.



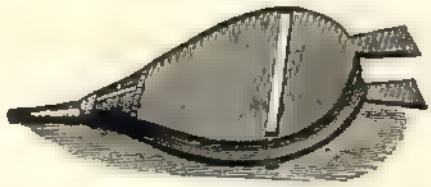
No. 400. Ball Bearing.

# BELLOWS.

## HAND.

| | | | | |
|---|---|---|---|---|
| Length, inch | 6 | 8 | 10 | 12 |
| Weight, lbs | 1 | 1½ | 2½ | 3¼ |
| Per dozen | $6.00 | 8.00 | 10.00 | 12.00 |

## MOULDERS.

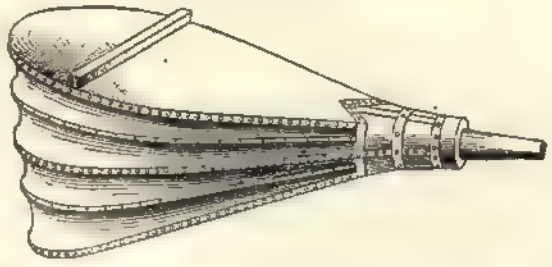


| | | | | |
|---|---|---|---|---|
| Length, inch | 10 | 12 | 14 | 16 |
| Weight, lbs | 2¼ | 3 | 4½ | 5¼ |
| Per dozen | $20 00 | 24 00 | 28.00 | 32.00 |

## EASTERN PATTERN.

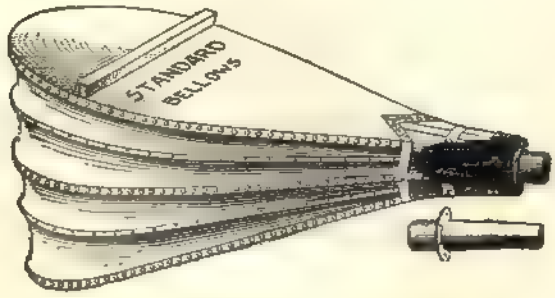
| | | | | | |
|---|---|---|---|---|---|
| Length, inch | 24 | 26 | 28 | 30 | 32 |
| Weight, lbs | 30 | 35 | 40 | 45 | 50 |
| Each | $10.00 | 11 00 | 12.00 | 13.00 | 14 00 |
| Length, inch | 34 | 36 | 38 | 40 | |
| Weight, lbs | 60 | 70 | 80 | 90 | |
| Each | $16.00 | 18.00 | 20.00 | 23 00 | |

## CALIFORNIA COMMON.



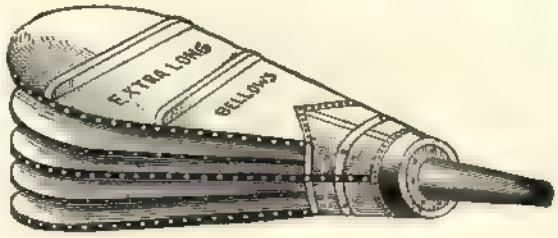
| | | | | | |
|---|---|---|---|---|---|
| Length, inch | 24 | 26 | 28 | 30 | 32 |
| Weight, lbs | 40 | 45 | 50 | [illegible] | 60 |
| Each | $12 00 | 13.00 | 14 00 | 15 00 | 16 00 |
| Length, inch | 34 | 36 | 38 | 40 | |
| Weight, lbs | 70 | 80 | 90 | 100 | |
| Each | $17 00 | 19.00 | 21 00 | 22.50 | |

## CALIFORNIA PATENT NOZZLE.




| | | | | | |
|---|---|---|---|---|---|
| Length, inch | 24 | 26 | 28 | 30 | 32 |
| Weight, lbs | 40 | 45 | 50 | 60 | 70 |
| Each | $12.00 | 13 00 | 14.00 | 15.00 | 16.00 |
| Length inch | 34 | 36 | 38 | 40 | |
| Weight, lbs | 80 | 90 | 100 | 110 | |
| Each | $17 00 | 19 00 | 21 00 | 22 50 | |

## EXTRA LONG.




CALIFORNIA—EXTRA LONG.

| | | | | |
|---|---|---|---|---|
| Length, inch | 36 | 38 | 40 | 42 |
| Weight, lbs | 100 | 120 | 140 | 160 |
| Each | $27.00 | 28.50 | 30 00 | 31 50 |
| Length, inch | 44 | 46 | 48 | 50 |
| Weight, lbs | 180 | 200 | 220 | 240 |
| Each | $44 00 | 57.50 | 72 00 | 87.50 |

EASTERN—EXTRA LONG.

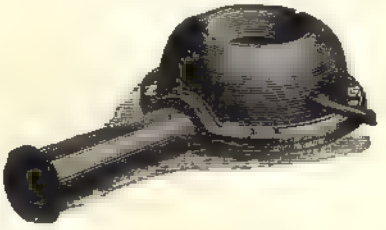
| | | | | |
|---|---|---|---|---|
| Length, inch | 38 | 40 | 42 | 44 |
| Weight, lbs | 120 | 140 | 160 | 180 |
| Each | $24 00 | 28 00 | 34 00 | 40.00 |

# TUYERE IRONS.

## DUCK NEST.

| Nos. | 0 | 1 |
|---|---|---|
| Weight, lbs. | 11 | 15 |
| Each | $1.00 | 1 50 |

## CLARK'S PATENT.



| Nos. | 2 | 3 |
|---|---|---|
| Weight, lbs. | 22 | 27½ |
| Each | $2 50 | 3 00 |

## PERFECTION.

Self-cleaning Bottom Tuyere.

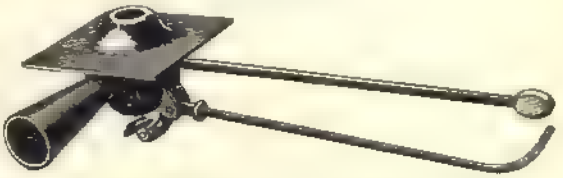
| | Each. |
|---|---|
| **No. 11**—For Rivet Forges and light work Weight, 20 lbs. | $3 00 |
| **No. 12**—For carriage work and horseshoeing Weight, 30 lbs. | 4.50 |
| **No. 13** For heavy work and general jobbing. Weight, 40 lbs. | $5.00 |
| **No. 14**—For very heavy work; can be used for light work. Weight, 60 lbs. | 8.00 |

Two grates are furnished with Nos. 12, 13 and 14, one of them being used for large, and the other for smaller blasts.
We can furnish grates, perforated with round holes, when so ordered.

## NORTON.

| No. | 4 |
|---|---|
| Weight, lbs | 26 |
| Each | $3.00 |

## WARREN.

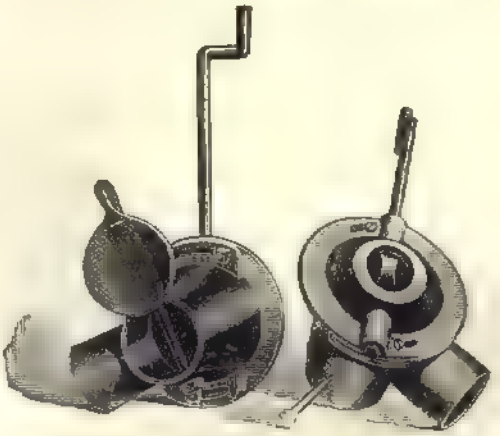


| No. | 5 |
|---|---|
| Weight, lbs | 53 |
| Each | $3.50 |

## NEW CHAMPION BALL.

| No. | 6 |
|---|---|
| Weight, lbs. | 16 |
| Each | $2.50 |

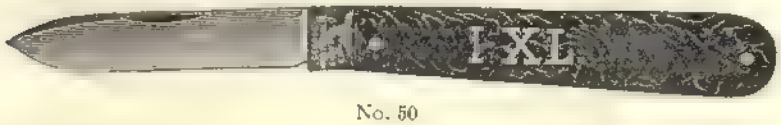
## CHAMPION ADJUSTABLE NOZZLE.



| No. | 7 |
|---|---|
| Weight, lbs. | 15½ |
| Each | $2 50 |

# POCKET KNIVES.

## GEORGE WOSTENHOLM & SON'S IXL.




No. 50

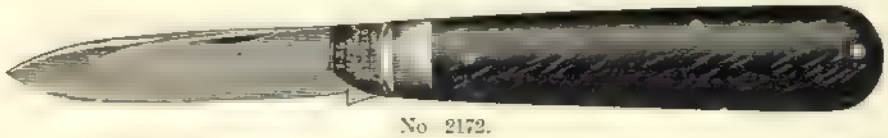
**No. 50**—One blade, glazed. Iron handle ..... Per dozen, $2 50

No. 1.

| | | |

# POCKET KNIVES.

## GEORGE WOSTENHOLM & SON'S IXL.



No. 2172.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **No. 2170**—Two blades, glazed | White bone handle. | Iron lined. | Polished steel bolster. | | | Per dozen, | $13 20 |
| **No. 2171**— " " " | Stag " | " " " | " " " | | | " | 14 40 |
| **No. 2172**— " " | Cocoa " | Brass " | German silver " | | | " | 14 40 |
| **No. 2173**— " " | Ebony " | " " | " " | | | " | 14 40 |

No. 2005.

| | | | | | |
|---|---|---|---|---|---|
| **No. 2005**—Two blades, glazed. | White bone handle | Iron lined. | Polished steel bolster. | | Per dozen, | $15 00 |
| **No. 2006**— " " | Cocoa " | Brass " | German silver " | | " | 15 00 |

No. 16146.

| | | | | | |
|---|---|---|---|---|---|
| **No. 16145**—Two blades, glazed | Cocoa handle. | Brass lined. | German silver bolster | | Per dozen, | $15 00 |
| **No. 16146**— " " " | White bone handle. | Brass lined. | German silver bolster | | " | 21 00 |
| **No. 16148**— " " " | Ebony " | " " | " " | | " | 15 00 |

No. 2043.

| | | | | | |
|---|---|---|---|---|---|
| **No. 2011**—Two blades, glazed | White bone handle. | Iron lined. | Polished steel cap and bolster. | | Per dozen, | $15 00 |
| **No. 2034**— " " " | " " " | Brass " | German silver " " " | | " | 16 80 |
| **No. 2040**— " " | Stag " | Iron " | Polished steel " " " | | " | 15 00 |
| **No. 2043**— " " " | " " | Brass " | German silver " " " | | " | 18 00 |
| **No. 2128**— " " | Imitation shell " | " " | " " " " | | " | 21 00 |

No. 17009.

**No. 17009**—Two blades, glazed. Stag handle. Iron lined. German silver cap. Polished steel bolster. Per dozen, $15 00

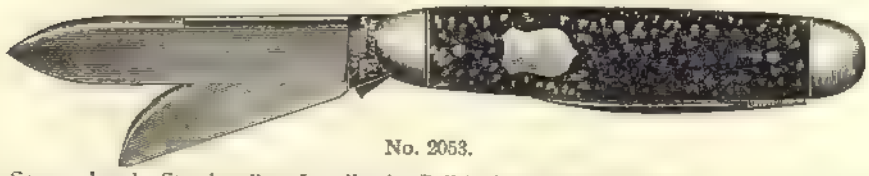
No. 2055.

**No. 2055**—Three blades, glazed. Stag handle. Brass lined. German silver cap and bolster. Per dozen, $22 80

One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

## GEORGE WOSTENHOLM & SON'S IXL.

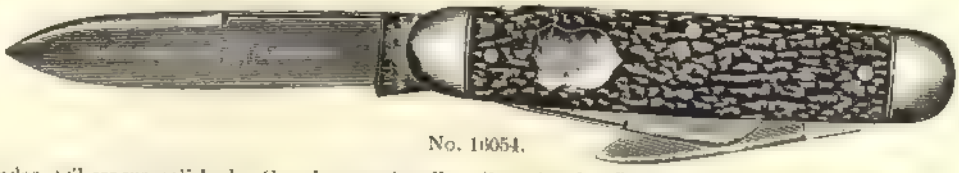


No. 2053.

**No. 2053**—Three blades, Spear, glazed Stag handle. Iron lined. Polished steel cap and bolster... ...Per dozen, $24 00
**No. 2054**— " " " " " " Brass " " " " " " " " " " 27 00
**No. 2177**— " " Clip, " " " " " " " " " " " " " " 30 00
**No. 16225**— " " Spear, " Buffalo horn handle. Brass lined German silver cap and bolster " 24 00
**No. 16229**— " " " " Pearl " " " " " " " " " " 48 00
**No. 16436**— " " " " White bone " " " " " " " " " " 24 00

No. 16702.

**No. 16702**—Three blades, Spear, glazed Genuine stag handle. Brass lined German silver cap and bolster ... ..... Per dozen, $30 00
**No. 16827**— " " Clip, full crocus polished. Genuine stag handle. Brass lined. German silver cap and bolster... " 38 00



No. 16054.

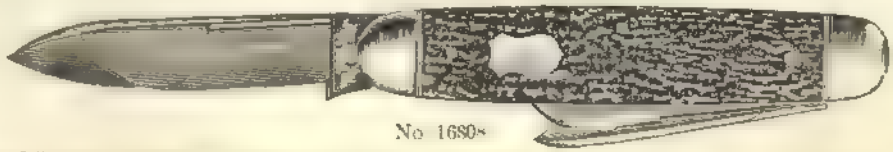
**No. 16054**—Three blades, full crocus polished. Genuine stag handle Brass lined. German silver cap and bolster. . ...Per dozen, $39 00

No 15562

**No. 15562**—Three blades, full crocus polished. Genuine stag handle Brass lined German silver cap and bolster. . Per dozen $42 00

No 16306.

**No. 16306**—Four blades, half crocus polished. Genuine stag handle. Brass lined German silver cap and bolster .. Per dozen, $41 20



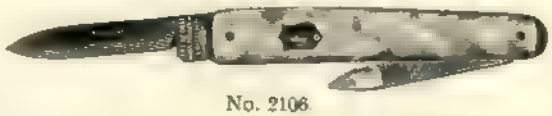
No 16808

**No. 16808**—Four blades, full crocus polished. Genuine stag handle. Brass lined. German silver cap and bolster .. .Per dozen $36 00

One-half dozen in box. Cuts, three-quarter size.

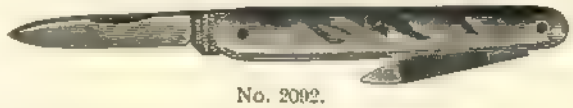
# POCKET KNIVES.

## GEORGE WOSTENHOLM & SON'S IXL.



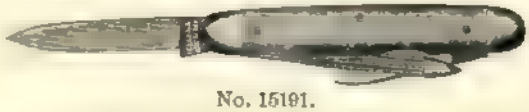
No. 2106.

**No. 2106**—Two blades, full crocus polished. Pearl handle. Brass lined. German silver tips.....Per dozen, $21.00



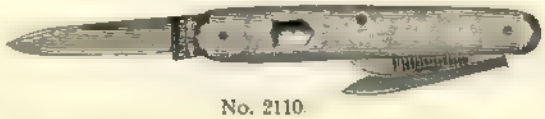
No. 2092.

**No. 2091**—Two blades, full crocus polished. Ivory handle. Brass lined.....Per dozen, $12 00
**No. 2092**— " " " " " Pearl " " " " " 15.00
**No. 2093**— " " " " " Imitation shell handle. Brass lined..... " 12.00



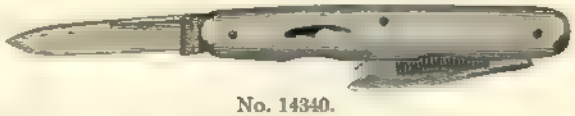
No. 15191.

**No. 15191**—Three blades, full crocus polished. Pearl handle. Brass lined. German silver cap and bolster. ... . Per dozen, $36.00



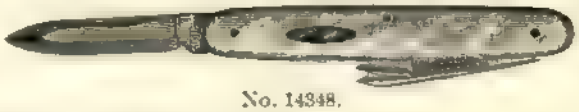
No. 2110.

**No. 2110**—Three blades, full crocus polished. Pearl handle. Brass lined. German silver tips..... ... ..... .. ..... .. .Per dozen, $25.20



No. 14340.

**No. 14340**—Three blades, full crocus polished. Pearl handle. Brass lined. German silver tips... . . . . .. ... . .... .Per dozen, $36 00



No. 14348.

**No. 14348**—Four blades, full crocus polished. Pearl handle. Brass lined. German silver tips.... . .. . .. .. Per dozen, $36 00

No. 13613.

**No. 13613**—Four blades, full crocus polished. Pearl handle. Brass lined..... .. .. . ..... ..... ....Per dozen, $36.00

No. 9258.

**No. 9258**—One blade and French nail file, full crocus polished. Pearl handle. Brass lined..... . .. ..... ..... ...Per dozen, $24 00
One-half dozen in box. Cuts, three-quarter size

# POCKET KNIVES.

## GEORGE WOSTENHOLM & SON'S IXL.

No. 2136.

**No. 2136**—Two blades, full crocus polished. English patent stag handle. Brass lined German silver cap and bolster.. ..Per dozen, $15 00

No. 14355

**No. 14355**—Two blades, full crocus polished. Pearl handle. Brass lined. German silver tips.... .. ... . .... .. . .Per dozen, $30.00

No.2118.

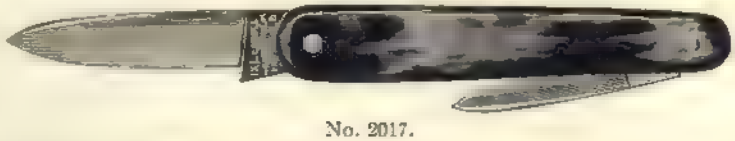
**No. 2118**—Two blades, full crocus polished. Pearl handle. Brass lined. German silver tips..... . .... . .. . .... .. ....Per dozen, $27 00

No. 2064.

**No. 2064**—Two blades, full crocus polished. English patent stag handle. Brass lined. German silver tips ....Per dozen, $18.00
**No. 2067**— " " " " " Ivory handle. Brass lined. German silver tips. ... .. . " 16.80

No. 2058.

**No. 2057** Two blades, File, full crocus polished Ivory handle Brass lined . .. . ... . . ... . Per dozen, $13.20
**No. 2058**— " " full crocus polished. " " " " ..... " 13.20
**No. 2079**— " " " " " Buffalo horn handle. Brass lined..... " 13.20



No. 2017.

**No. 2017**—Two blades, full crocus polished. Buffalo horn handle. Brass lined. ..... . .... . .. .. ..... ... .. . . ...Per dozen, $14.40
**No. 2018**— " " " " " Ivory handle. Brass lined. . . . .. . . . . .... " 14.40
**No. 2044**— " " " " " Pearl " " " ..... " 24 00
**No. 2060**— " " " " " English patent stag handle. Brass lined..... ..... " 14.40
**No. 2081**— " " " " " Imitation shell " " " ..... ..... " 14.40

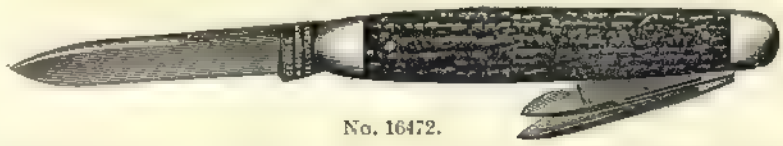
One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

## GEORGE WOSTENHOLM & SON'S IXL.

No. 14051.

**No. 14050**—Three blades, crocus polished. Ivory handle. Brass lined German silver bolster... ..... .. .... .Per dozen, $30 00
**No. 14051**— " " " " Genuine stag handle. Brass lined. German silver bolster ..... . ... ... " 30 00

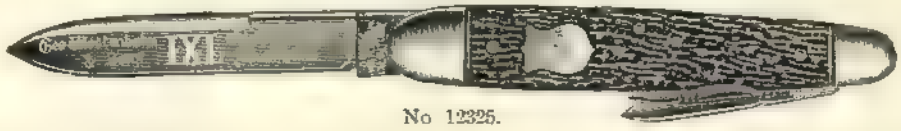


No. 16472.

**No. 15259**—Three blades, full crocus polished. Pearl handle. Shield. Brass lined. German silver cap and bolster .. ..Per dozen, $36 00
**No. 16472**— " " " " " Genuine stag handle. " " " " " " " " ..... " 24 00
**No. 16711**— " " " " " Pearl " " " " " " " " ..... " 30 00

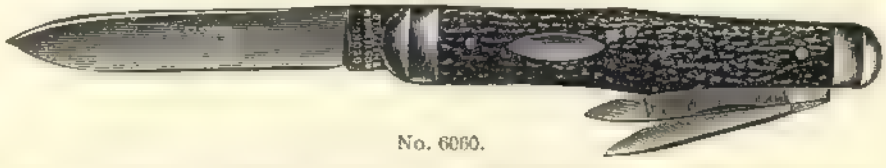
No. 12317.

**No. 12317**—Three blades, crocus polished. Pearl handle. Brass lined. German silver cap and bolster..... .. .... .....Per dozen, $36.00
**No. 13761**— " " " " Genuine stag handle. Brass lined. German silver cap and bolster. . .. .. " 27 00
**No. 13762** - " " " " Ivory " " " " " " " " .. .. . . " 27.00




No 12325.

**No. 12325** - Three blades, full crocus polished. Genuine stag handle. Brass lined. German silver cap and bolster.... . ..Per dozen, $30.00



No. 6060.

**No. 6060**—Three blades, glazed. Genuine stag handle. Brass lined. Polished steel cap and bolster. .. .. .... ...Per dozen, $25 20

No. 2085

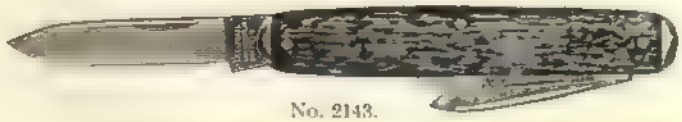
**No. 2069**—Three blades, full crocus polished. Ivory handle. Brass lined German silver tips..... ... . . . Per dozen, $21 60
**No. 2073**— " " " " " Pearl " " " " " " .... ... .. .. " 33 00
**No. 2085**— " " " " " Imitation shell handle. Brass lined. German silver tips . . " 21 60

One-half dozen in box. Cuts, three quarter size.

PACIFIC HARDWARE & STEEL COMPANY

# POCKET KNIVES.

## GEORGE WOSTENHOLM & SON'S IXL.

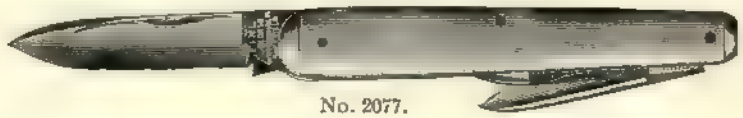


No. 2143.

**No. 2143**—Three blades, full crocus polished. Stag handle. Brass lined. German silver tips.. .. Per dozen, $24 00
**No. 2107**— " " " " " Pearl " " " " "

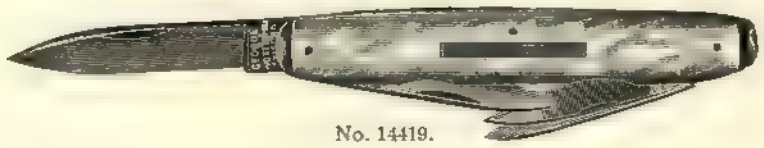
# POCKET KNIVES.

## GEORGE WOSTENHOLM & SON'S IXL.



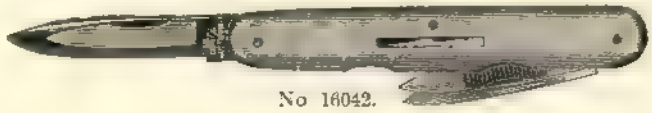
No. 2077.

**No. 2077**—Four blades, full crocus polished Ivory handle. Brass lined. German silver tips.. ..... .... .. . ... .. . .. Per dozen, $24 00
**No. 2146**— " " " " " English patent stag handle. Brass lined. German silver tips. . .... . ... . " 27 00



No. 14419.

**No. 14270**—Four blades, full crocus polished. Stag handle. Brass lined. German silver tips.. ... . .. . .. .....Per dozen, $36 00
**No. 14419**— " " " " " Pearl " " " " " " " .. .. ... ..... ... .... .. ... " 42 00

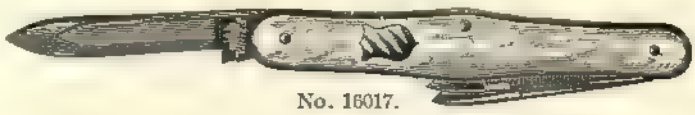


No 16042.

**No. 16042**—Four blades, full crocus polished. Pearl handle. Brass lined.. . . . . ... ... Per dozen, $45 00

No. 13082.

**No. 13082**—Four blades, full crocus polished. Shell handle. Brass lined. .. ... ..... .. ..... .. .. .. ..Per dozen $45 00
**No. 13176**— " " " " " Pearl " " .. ... ... . . . . . " 48 00



No. 16017.

**No. 16017**—Four blades, full crocus polished. Pearl handle. Brass lined..... ..... . . . .....Per dozen, $48 00

No. 15297.

**No. 15297**—Four blades, full crocus polished. Ivory handle. Brass lined..... ..... ..... ... . . .. ... .... ..... Per dozen, $42 00
**No. 15584**— " " " " " Pearl " " " . ... .... ..... . .. . . .. ..... " 54 00

One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

## GEORGE WOSTENHOLM & SON'S IXL.

No. 15628.

**No. 15628**—Two blades and French nail file, full crocus polished Pearl handle Brass lined.. .. . ... . Per dozen, $36.00

No. 12413.

**No. 12413**—Two blades and French nail file, full crocus polished Pearl handle Brass lined, German silver cap and bolster Per dozen, $33.00

No. 5757.

**No. 5757**—Three blades, full crocus polished. Pearl handle. Brass lined.....Per dozen, $48 00

No. 15151

**No. 15151**—Two blades, Scissors and French nail file, full crocus polished Pearl handle. Brass lined .. .. Per dozen $60.00

No. 12825.

**No. 12825**—Corn. One blade, full crocus polished. Ivory handle. Brass lined ..... .. .....Per dozen, $15.00

One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

## GEORGE WOSTENHOLM & SON'S IXL.

No. 7940.

**No. 7940**—Budding. One blade, crocus polished. Ivory handle. Brass lined ..... Per dozen, $15.00
**No. 7942**—Same as No 7940, one-fourth larger..... " 21.00

No. 7691

**No. 7691**—Budding. One blade, crocus polished. Buffalo horn handle, ivory end. Brass lined. German silver bolster ....Per dozen, $15.00

No 15713

**No. 15711**—Two blades, Corkscrew and Wire hook Genuine stag handle Brass lined. German silver cap and bolster Per dozen, $45 00
**No. 15713**— " " " " " " Pearl " " " " " " " " " " 54 00

No. 12764.

**No. 12764**—Two blades, Hoof cleaner, Punch and Corkscrew Genuine stag handle Iron lined Polished steel bolster....Per dozen, $36.00
**No. 12925**— " " " " " " " Ivory " Brass " " " " " " " 36.00
**No. 13144**— " " " " " " " Pearl " " " " " " " " " " 54.00

No. 7540.

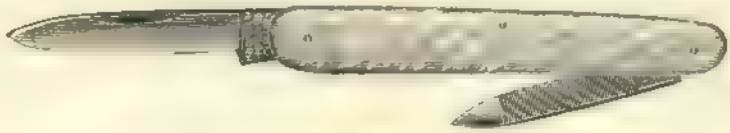
**No. 7540**—Two blades, Hoof cleaner, Horse fleam, Punch, Corkscrew, Tweezers and Pick Genuine stag handle. Iron lined. Polished steel bolster ..... Per dozen, $42 00
**No. 7577**—Two blades, Saw, Hoof cleaner, Horse fleam, Punch, Gimlet, Corkscrew, Tweezers and Pick Genuine stag handle. Iron lined. Polished steel bolster .. 48.00

One-half dozen in box. Cuts, three-quarter size

# Pocket Knives.

## "Tree Brand," Warranted.

Full Size Cuts.



No. 5714.

**No. 5714**—2½ in., Two Blades, Taper Shadow Pearl Handle, Brass Lined, Full Crocus Finish .Per Dozen, $16 50

No. 5734.

**No. 5734**—2⅝ in., Two Blades, Stag Handle, Brass Lined, German Silver Bolster, Full Crocus Finish . . . . . .Per Dozen, $12 50

No. 4972P

**No. 4972 P**—2⅝ in., Two Blades, Pearl Handle, Brass Lined, German Silver Bolster, Full Crocus Finish, . . . . . .Per Dozen, $17 00

No. 5475

**No. 5475** 3 in., Two Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap, Full Crocus Finish. . . . . Per Dozen, $13 50

No. 6636.

**No. 6636**—3 in., Two Blades, Buffalo Handle, Brass Lined, German Silver Bolster and Cap, Full Crocus Finish. . . . . .Per Dozen, $13 50

No. 6651

**No. 6651**—2⅝ in , Two Blades, Stag Handle, Brass Lined, Full Crocus Finish. . . . . Per Dozen, $10 00
**No. 6650**—2⅝ " " " Shadow Celluloid Handle, Brass Lined, Full Crocus Finish " " 12 00

All Half Dozen in a Box.

# Pocket Knives.

## "Tree Brand," Warranted.

Full Size Cuts

No. 5853

**No. 5853**—3 in., Two Blades, Pearl Handle, Brass Lined, German Silver Bolster and Cap, Full Crocus Finish — Per Dozen, $26 00

No. 5622 G. B.

**No. 5622 G. B.**—3¼ in., Two Blades, Grey Buffalo Handle, Brass Lined, Full Crocus Finish — Per Dozen, $13 00
**No. 5622 Stg.**—3¼ " " " Stag " " " " " " — " " 13 00

No. 6199

**No. 6199**—3¼ in., Two Blades, Shadow Pearl Handle, Brass Lined, Full Crocus Finish — Per Dozen, $26 00

No. 6518

**No. 6518**—3¼ in., Two Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap, Full Crocus Finish — Per Dozen, $12 00
**No. 6621**—3¼ " " " Ebony " " " " " " " — " " 12 00

No. 6075.

**No. 6075**—3 in., Two Blades, Stag Handle, Steel Lined, Glazed Blades — Per Dozen, $5 50
**No. 6074**—3 " " " Bone " " " " " " — " " 6 00

No. 6623.

**No. 6623**—3¼ in., Two Blades, Celluloid Handle, Brass Lined, Full Crocus Finish — Per Dozen, $16 00

All Half Dozen in a Box.

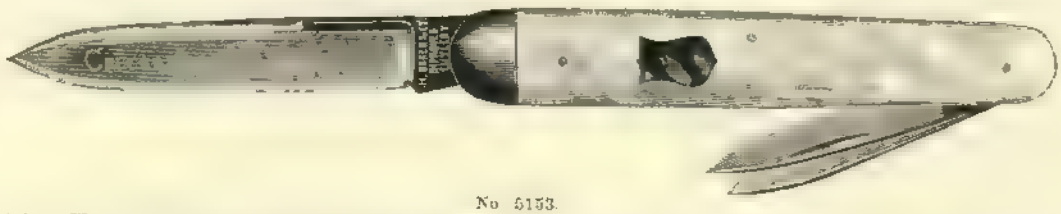
# Pocket Knives.

## "Tree Brand," Warranted.

Full Size Cuts.

No. 6369

**No. 6369**—2¼ in., Two Blades, Pearl Handle, Brass Lined, Full Crocus Finish . . . . . Per Dozen, $23 00



No. 5153.

**No. 5153**—3¼ in., Three Blades, Pearl Handle, Brass Lined, German Silver Bolster, Full Crocus Finish, . . . . . Per Dozen, $38 00

**No. 5758**—3¼ in., Three Blades, Stag Handle, Brass Lined, German Silver Bolster, Full Crocus Finish . . . . . Per Dozen, 25 00

No. 6216.

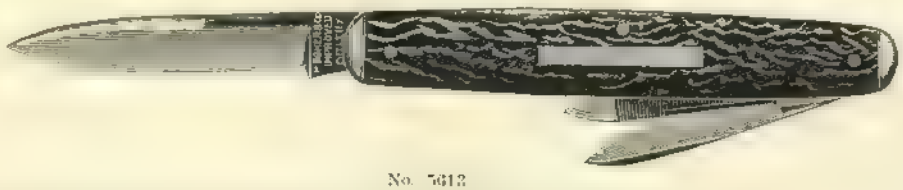
**No. 6216**—3⅛ in., Three Blades, Pearl Handle, Brass Lined, German Silver Tip Bolster and Cap, Full Crocus Finish . . . . . Per Dozen, $34 00

**No. 6215**—3⅛ in., Three Blades, Stag Handle, Brass Lined, German Silver Tip Bolster and Cap, Full Crocus Finish . . . . . Per Dozen, 21 00

No. 4676P

**No. 4676P**—2¾ in , Three Blades, Pearl Handle, Brass Lined, German Silver Tip Bolster and Cap, Full Crocus Finish . . . . . Per Dozen, $27 00

**No. 6040**—2¾ in , Three Blades, Stag Handle, Brass Lined, German Silver Tip Bolster and Cap, Full Crocus Finish . . . . . Per Dozen, 19 00



No. 5613

**No. 5613**—3⅛ in., Three Blades, Stag Handle, Brass Lined, German Silver Tip Bolster and Cap, Full Crocus Finish . . . . . Per Dozen, $21 00

All Half Dozen in a Box

# Pocket Knives.

## "Tree Brand," Warranted.

Full Size Cuts.

No. 6157

**No. 6157**—3⅛ in., Three Blades, Pearl Handle, Brass Lined, German Silver Tip Bolster and Cap, Full Crocus Finish, Per Dozen, $34 00

No. 6155

**No. 6155**—3 in., Three Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap, Ful. Crocus Finish .. .Per Dozen, $21 00
**No. 6156**—3 " " " Pearl " " " " " " " " " " " " " " 27 00

No. 6296

**No. 6296**—3¼ in., Three Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap, Full Crocus Finish .. .Per Dozen, $20 00

No. 6379

**No. 6379**—3⅛ in., Three Blades, Pearl Handle, Brass Lined, German Silver Bolster and Cap, Full Crocus Finish .. Per Dozen, $29 00

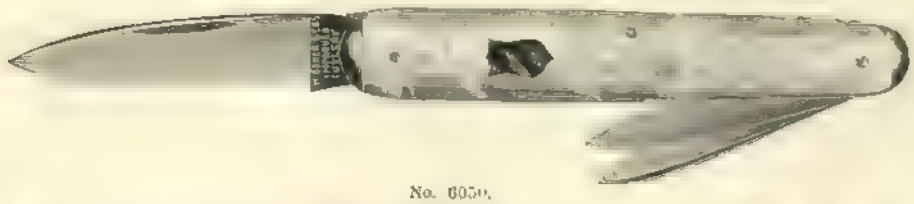
No. 6720

**No. 6720**—3½ in., Three Blades, Cocoa Handle, Brass Lined, German Silver Bolster and Cap, Full Crocus Finish .....Per Dozen, $23 00
All Half Dozen in a Box

# Pocket Knives.

## "Tree Brand," Warranted.

Full Size Cuts



No. 6050.

**No. 6050**—3½ in., Three Blades, Pearl Handle, Brass Lined, German Silver Tip Bolster and Cap, Full Crocus Finish..Per Dozen, $28 00
**No. 6051**—3⅛ " " " " Stag " " " "

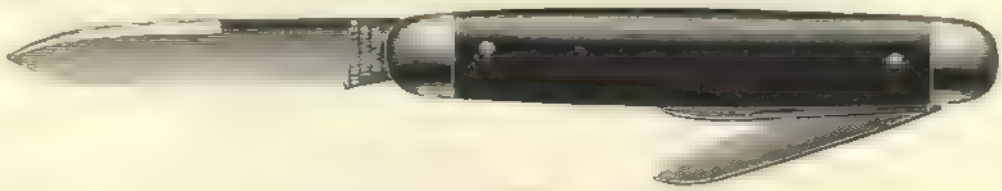
# Pocket Knives.

## "Tree Brand," Warranted.

Full Size Cuts

No. 6380

**No. 6380**—3¼ in., Three Blades, Pearl Handle, Brass Lined, German Silver Bolster and Cap, Glazed Blades..... ..Per Dozen, $24 00
**No. 6381**—3¼ " Four " " " " " " " " " " " " " " " " " " 26 00

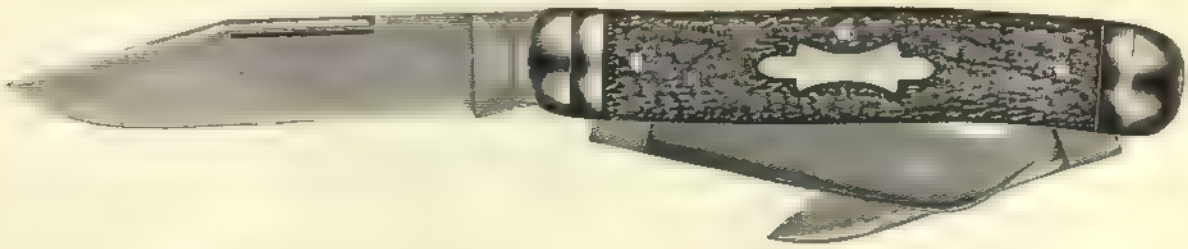


No. 6062.

**No. 6062**—3¼ in., Three Blades, Bone Handle, Brass Lined, German Silver Bolster and Cap, Glazed Blades . Per Dozen, $14 50

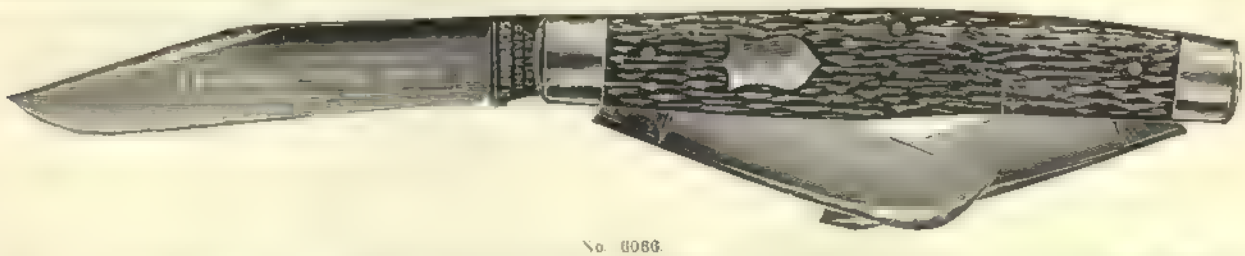
No. 6063.

**No. 6063**—3¼ in., Three Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap, Glazed Blades .. . .Per Dozen, $14 50
**No. 6402**—3¾ " " " Ebony " " " " " " " " " " " " " " " " " " 14 00



No. 6159.

**No. 6159**—3½ in., Three Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap, Full Crocus Finish .Per Dozen, $28 00



No. 6066.

**No. 6066**—4 in., Three Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap, Full Crocus Finish. Per Dozen, $29 00
**No. 6065**—4 " " " Grey Buffalo " " " " " " " " " " " " " " " " " " 29 00

All Half Dozen in a Box.

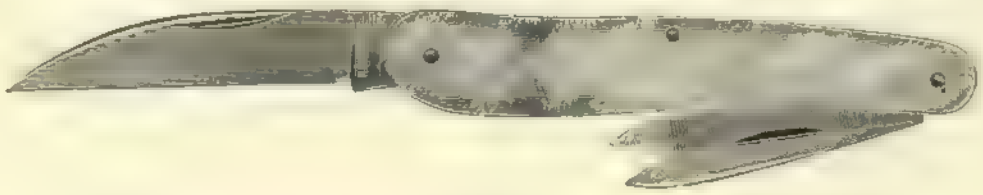
# Pocket Knives.

## "Tree Brand," Warranted.

Full Size Cuts.

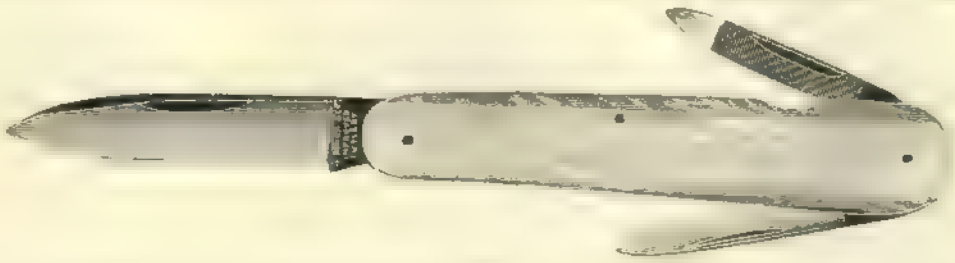
No. 5693.

**No. 5693**—2⅝ in., Three Blades, Pearl Handle, Brass Lined, German Silver Bolster and Cap, Full Crocus Finish . . . . . Per Dozen, $24 00



No. 6559.

**No. 6559**—3¼ in., Three Blades, Shadow Pearl Handle, Brass Lined, Full Crocus Finish. . Per Dozen, $28 00



No. 6421

**No. 6421**—3½ in., Three Blades, Pearl Handle, Brass Lined Milled Scales, Nail Blade on Back, Full Crocus Finish . . . . . Per Dozen, $44 00

No. 6565.

**No. 6565**—3¼ in., Three Blades, Pearl Handle, German Silver Lined, Milled Scales, Manicure Blade, Full Crocus Finish . . . . . Per Dozen, $40 00

No. 6377

**No. 6377**—3¾ in., Three Blades, Cattle, Pearl Handle, Brass Lined, German Silver Bolster and Cap, Glazed Blades. . . . . Per Dozen, $36 00

All Half Dozen in a Box

# Pocket Knives.

## "Tree Brand," Warranted.

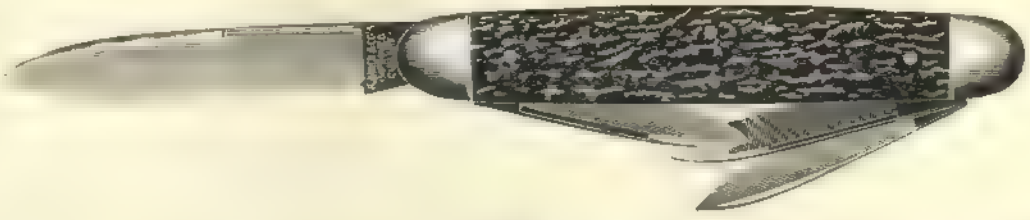
Full Size Cuts.

No. 5802.

**No. 5802**—3½ in., Four Blades, Grey Buffalo Handle, Brass Lined, German Silver Bolster and Cap, Full Crocus Finish. Per Dozen, $18 00
**No. 5639**—3½ " " " Stag " " " " " " " " " " " " " " " " 19 00

No. 6445.

**No. 6445**—3⅛ in., Four Blades, Pearl Handle, Brass Lined, German Silver Bolster and Cap, Full Crocus Finish . Per Dozen. $27 00
**No. 6446**—3⅛ " " " Stag " " " " " " " " " " " " " " " " 21 00



No. 6457.

**No. 6457**—3⅜ in., Four Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap, Glazed Blades... . . ..Per Dozen, $16 00

No. 5611.

**No. 5611**—3½ in., Four Blades, Pearl Handle, Brass Lined, German Silver Tip, Bolster and Cap, Full Crocus Finish..Per Dozen, $14 00
**No. 5614**—3½ " " " Stag " " " " " " " " " " " " " " " " 23 00

No. 6282.

**No. 6282**—4 in., Four Blades, Carpenter's Knife, Stag Handle, Brass Lined, German Silver Bolster and Cap, Full Crocus Finish. .....Per Dozen, $32 00

All Half Dozen in a Box.

# Pocket Knives.

## "Tree Brand," Warranted.

Full Size Cuts

No 5513.

**No 5513**—2¾ in., Four Blades, Pearl Handle, Brass Lined, German Silver Bolster and Cap, Full Crocus Finish ..... Per Dozen, $29 00

No. 6154

**No. 6154**—2¾ in., Four Blades, Pearl Handle, Brass Lined, German Silver Tip Bolster and Cap, Full Crocus Finish ..... Per Dozen, $32 00

No 5613.

**No. 5613**—3¼ in., Four Blades, Stag Handle, Brass Lined, German Silver Tip Bolster and Cap, Full Crocus Finish. ..... Per Dozen, $23 00

No 5612.

**No. 5612**—3¼ in., Four Blades, Pearl Handle, Brass Lined, German Silver Tip Bolster and Cap, Full Crocus Finish. ..... Per Dozen, $38 00

No. 6442.

**No. 6442**—3 in., Four Blades, Pearl Handle, Brass Lined, German Silver Tip Bolster and Cap, Full Crocus Finish. ..... Per Dozen, $34 00
**No 6443**—3 " " " Stag " " "

# Pocket Knives.

## "Tree Brand," Warranted.

Full Size Cuts.

No. 6232P

**No. 6232 P**—2¾ in., Three Blades, Taper Shadow Pear., Long Nail Blade on Back, Brass Lined, Full Crocus Finish ..Per Dozen $32 00
**No. 6232 STG**—2¾ in., " " Stag " " " " " " " " " " " " " " " " 21 00

No. 5958

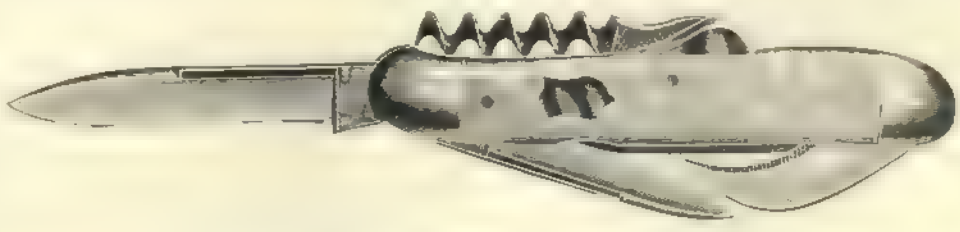
**No. 5958**—3 in., Three Blades, Pearl Handle, Long Nail Blade, German Silver Bolster and Cap, Full Crocus Finish...Per Dozen, $30 00
**No 5957**—3 " " " Stag " " " " " " " " " " " " " " " " 23 00

No. 5821.

**No. 5821** 3½ in., Two Blades German Silver Handle, Brass Lined, Cork Screw and Cigar Cutter, Crocus Finish. Per Dozen, $25 00

No. 6652

**No. 6652**—3½ in., Three Blades, Stag Handle, Brass Lined, German Silver Bolster and Cap, Nail Blade and Cork Screw, Crocus Finish .....Per Dozen, $27 00



No. 607

**No. 6071**—3 in., Two Blades, Pearl Handle, Brass Lined, German Silver Bolster and Cap, Wire Cutter and Cork Screw, Crocus Finish .....Per Dozen, $56 00

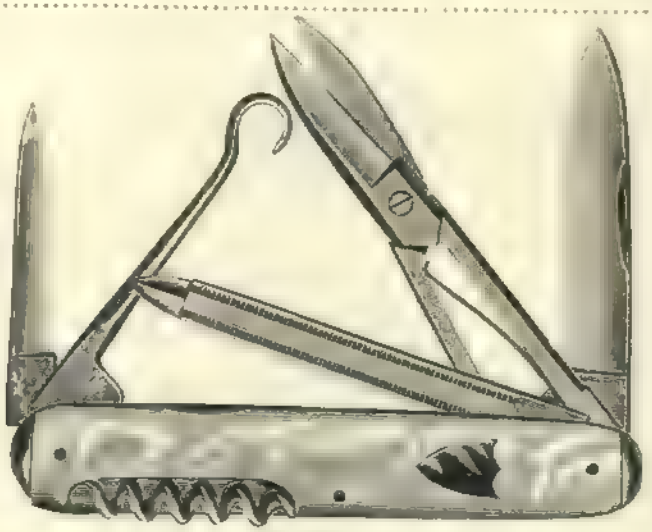
All Half Dozen in a Box.

# Pocket Knives.

## "Tree Brand."

No. 6171.

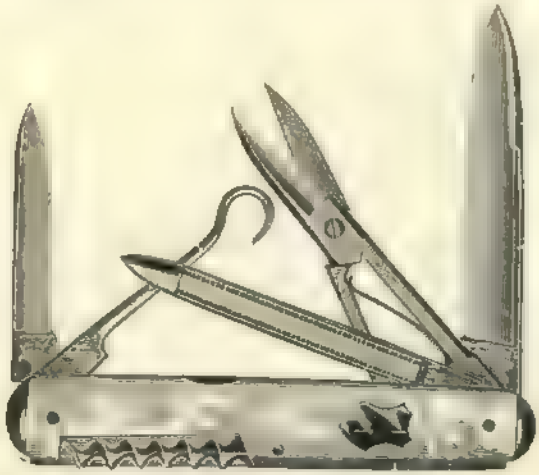
**No. 6171**—3 in., Three Blades, Pearl Handle, Brass Lined, German Silver Tip Bolster and Cap, Nail Blade on Back, Full Crocus Finish ..... Per Dozen, $38 00



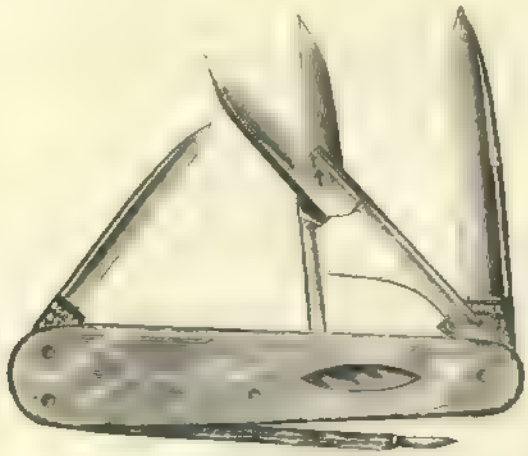
No. 6214

**No. 6214**—3½ in., Six Blades, Pearl Handle, Brass Lined, German Silver Tip Bolster and Cap, Milled Scale, Full Crocus Polish. ..... Per Dozen, $65 00

**No. 6213**—3½ in., Six Blades, Stag Handle, Brass Lined German Silver Tip Bolster and Cap, Milled Scale, Full Crocus Finish. ..... Per Dozen, 45 00



No. 5598P.



No. 6219.

**No. 5598P**—2⅞ in., Six Blades, Pearl Handle, German Silver Lined, German Silver Tip Bolster and Cap, Full Crocus Finish, ..... Per Dozen, $55 00

**No. 6542**—2⅞ in., Six Blades, Stag Handle, German Silver Lined, German Silver Tip Bolster and Cap, Full Crocus Finish. ..... Per Dozen, 50 00

**No. 6219**—2⅞ in., Four Blades, Pearl Handle, Brass Lined, Milled Scales, Full Crocus Finish ..... " " 45 00

All Half Dozen in a Box.

# Pocket Knives.

## "Tree Brand," Warranted.

Full Size Cuts.

No. 5899

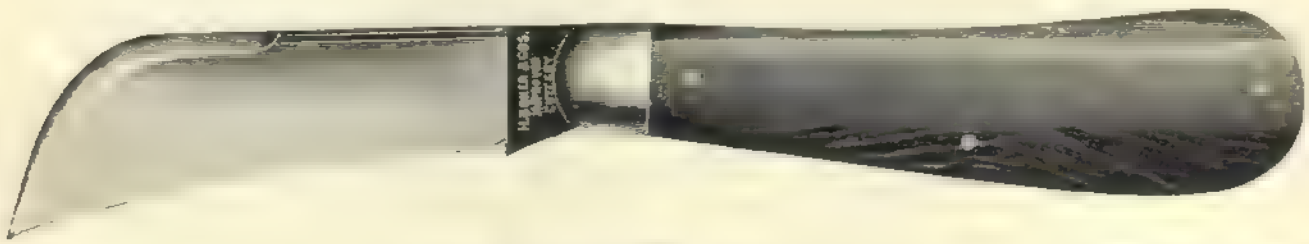
**No. 5899**—3⅛ in., One Blade, Ivory Handle, Brass Lined, Full Crocus Finish . . . . . Per Dozen, $15 00

## Budding.

No. 6427

**No. 6427**—3¼ in., One Blade, Buffalo, White End Handle, Brass Lined, German Silver Bolster, Full Crocus Finish.....Per Dozen, $20 00

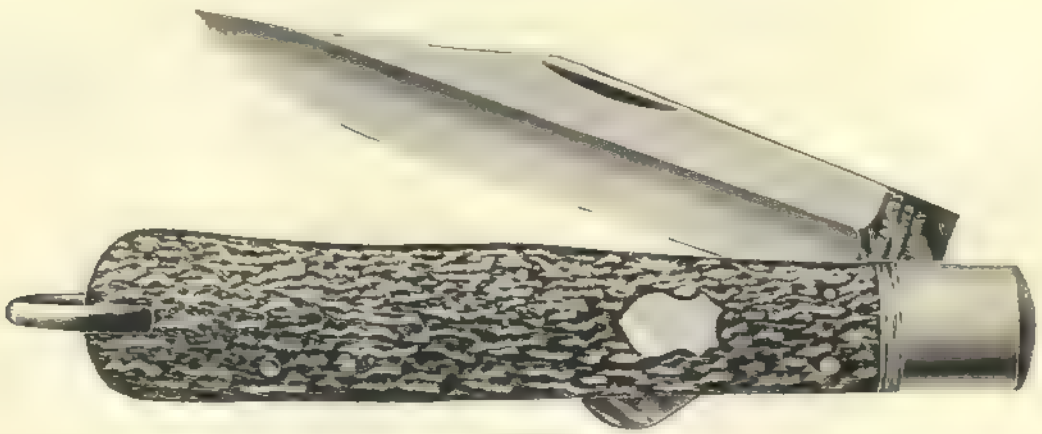
## Pruning.



No. 9215

**No. 9215**—4 in., One Blade, Cocoa Handle, Iron Lined, Glazed Blade. . . . . Per Dozen, $12 00

## Lock Back.



No. 6656

**No. 6656**—5¼ in., One Blade, Stag Handle, Brass Lined, German Silver Bolster, Glazed Blade, Per Dozen, $28 00

All Half Dozen in a Box.

# WOOD PLANES.

## SMOOTH.

Double irons, 1¾, 2, 2⅛ and 2¼ inches wide.....Each, $0 90
Average weight, 2¼ lbs.

## HANDLED SMOOTH.

Double irons, 1¾, 2, 2⅛ and 2¼ inches wide .....Each, $1.75
Average weight, 2¼ lbs.

## JACK.

Double irons, 1¾, 2, 2⅛ and 2¼ inches wide..... .....Each, $1 00
Average weight, 4¼ lbs.

## FORE.

Double irons, 2¼, 2⅜ and 2½ inches wide..... ...Each, $1 40
Average weight, 6½ lbs.

## JOINTER.

| Length, inch | 26 | 28 | 30 |
|---|---|---|---|
| Double irons, 2⅛, 2⅜ and 2⅝ inches wide ..... Each, | $1 50 | 1 60 | 1 75 |

Average weight, 8 lbs.

## SHIP SMOOTH.

Double irons, 1¾, 2, 2⅛ and 2¼ inches wide..... .. ....Each, $1.00
Average weight, 2¼ lbs.

## SHIP.

Ship Jack. Double irons, 1¾, 2, 2⅛, 2¼ inches.....Each, $1.20
" Fore, 22-inch. Double irons, 2⅛, 2⅜, 2½ inches " 1 60
" Jointer, 26-inch. " " 2⅛, 2⅜, 2¾ " " 1.75
Average weight, Jack, 4½; Fore, 6; Jointer, 6½ lbs.

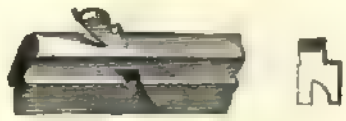
# FANCY WOOD PLANES.

## SCREW STOP, DADO.

**No. 62**—All sizes, ¼ to 1 inch..... .....Each, $1.50

Average weight, 1 ½ lbs.

## CASING MOULDING.



**No. 54½**—½ inch .....Each, $0.80
**No. 54⅜**—⅝ and 1 inch ..... " .90

Average weight, 1 lb

## RABBET.

Skew Rabbet.

| **No. 146**—Size, inch.. | ½ to 1 | 1¼ | 1½ | 1¾ | 2 |
|---|---|---|---|---|---|
| Each..... | $0.60 | .65 | .70 | .80 | .90 |

Jack Rabbet.

**No. 149**—Side handle. 2 spurs, 1¼, 1½, 1¾, 2 inches..Each, $1.90

Weight, 1 to 2 lbs., according to size.

## NOSING.

**No. 113**—Two irons, ⅜, 1, 1¼ inches .....Each, $1.10
**No. 118**— " " 1½ inches " 1.20

Weight, 1¼ to 1¾ lbs., according to size

## SINGLE BOXED SIDE BEAD.

| **No. 47**—Size, inch..... | ¼ to ⅜ | ⅝ and ½ | ⅝ and 1 | 1¼ |
|---|---|---|---|---|
| Each ..... | $0.50 | .55 | .70 | .90 |

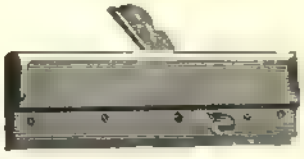
Weight, ¼ to 1¼ lbs, according to size.

## DOUBLE BOXED CENTER BEAD.

| **No. 51**—Size, inch..... | ⅛ to ¼ | ⅜ to ½ |
|---|---|---|
| Each..... | $0.60 | .65 |

Average weight, 1 ¼ lbs

## MATCH.



**No. 100**—Plated, ⅛, ¼, ⅜, ½, ⅝, 1 inch.....Per pair, $1.75

Average weight, 2½ lbs.

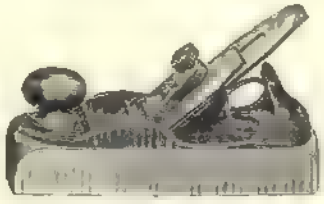
## HOLLOWS AND ROUNDS.

Hollows and Rounds.

| **Nos.** | **2** | **4** | **6** | **8** | **10** | **12** | **14** | **16** | **18** | **20** | **26** | **28** | **30** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Size, inch | ¼ | ⅜ | ½ | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1¼ | 1¼ | 1⅜ | 2 |
| Weight, lbs | ¾ | ⅞ | 1 | 1¼ | 1½ | 1¾ | 2 | 2½ | 2¼ | ... | .. | . | ... |
| Per pair | $1 00 | 1 00 | 1.00 | 1.00 | 1.00 | 1.00 | 1 15 | 1 15 | 1 15 | 1 35 | 1 75 | 1.75 | 1 75 |

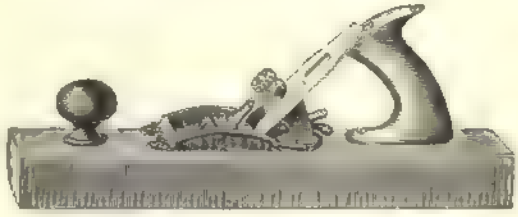
# PLANES.

## STANLEY'S ADJUSTABLE WOOD BOTTOM.



**No. 122**—Stanley. Smooth. Length, 8 inches. Cutter, 1¾ inches. Weight, 2½ lbs..... Each, $1 00

**No. 135**—Stanley. Handled Smooth. Length, 10 inches. Cutter, 2⅛ inches. Weight, 3½ lbs. ..Each, $1.85

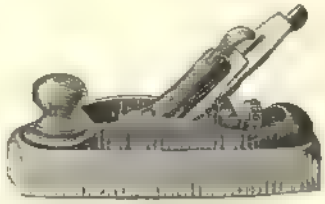


**No. 127**—Stanley. Jack. Length, 15 inches. Cutter, 2⅛ inches. Weight, 3¾ lbs..... Each, $1.35

**No. 129**—Stanley. Fore. Length, 20 inches. Cutter, 2⅜ inches. Weight, 5 lbs..... " 1 50

**No. 132**—Stanley. Jointer. Length, 26 inches. Cutter, 2⅝ inches. Weight, 8 lbs..... " 1.70

## BAILEY'S AND OHIO ADJUSTABLE WOOD BOTTOM.



**No. 21**—Bailey. Smooth. Length, 7 inches. Cutter, 1¾ inches. Weight, 2¼ lbs..... Each, $1.35

**No. 021**—Ohio. Same as above..... " 2 00

**No. 22**—Bailey. Smooth. Length, 8 inches. Cutter, 1¾ inches. Weight, 2½ lbs..... " 1.35

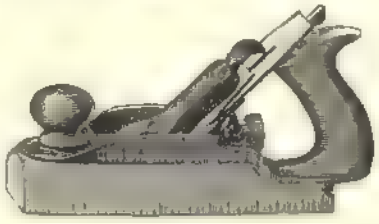
**No. 022**—Ohio. Same as above..... " 2 00

**No. 23**—Bailey. Smooth. Length, 9 inches. Cutter, 1¾ inches. Weight, 2¾ lbs..... " 1 35

**No. 023**—Ohio. Same as above..... " 2 00

**No. 24**—Bailey. Smooth. Length, 8 inches. Cutter, 2 inches. Weight, 3 lbs..... " 1 35

**No. 024**—Ohio. Same as above..... " 2 00



**No. 35**—Bailey. Handled Smooth. Length, 9 inches. Cutter, 2 inches. Weight, 3¾ lbs..... Each, $1 70

**No. 035**—Ohio. Same as above..... " 2.50

**No. 36**—Bailey. Handled Smooth. Length, 10 inches Cutter, 2⅜ inches. Weight, 3½ lbs..... " 1.85

**No. 036**—Ohio. Same as above..... " 2.75

One in box. Extras for above, see pages 141 to 144.

# PLANES.

## BAILEY'S AND OHIO ADJUSTABLE WOOD BOTTOM.

**No. 26**—Bailey. Jack. Length, 15 inches. Cutter, 2 inches. Weight, 4 lbs.....Each, $1.50
**No. 026**—Ohio. Same as above..... " 2 25
**No. 27**—Bailey. Jack. Length, 15 inches. Cutter, 2⅜ inches. Weight, 4½ lbs..... " 1.70
**No. 027**—Ohio. Same as above..... " 2.50
**No. 27½**—Bailey. Jack. Length, 15 inches. Cutter, 2⅝ inches. Weight, 5¼ lbs..... " 1 70
**No. 027½**—Ohio. Same as above..... " 2.50
**No. 28**—Bailey. Fore. Length, 18 inches. Cutter, 2⅜ inches. Weight, 6 lbs..... " 1 85
**No. 028**—Ohio. Same as above..... " 2 75
**No. 29**—Bailey. Fore. Length, 20 inches. Cutter, 2⅜ inches. Weight, 6 lbs..... " 1 85
**No. 029**—Ohio. Same as above..... " 2 75

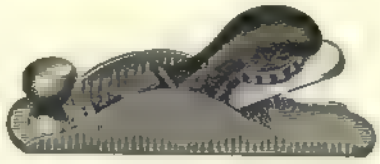
**No. 30**—Bailey. Jointer. Length, 22 inches. Cutter, 2⅜ inches. Weight, 6½ lbs..... Each, $2 00
**No. 030**—Ohio. Same as above..... " 3.00
**No. 31**—Bailey. Jointer. Length, 24 inches. Cutter, 2⅜ inches. Weight, 6½ lbs..... " 2.00
**No. 031**—Ohio. Same as above..... " 3.00
**No. 32**—Bailey. Jointer. Length, 26 inches. Cutter, 2⅝ inches. Weight, 8 lbs..... " 2.20
**No. 032**—Ohio. Same as above..... " 3.25
**No. 33**—Bailey. Jointer. Length, 28 inches. Cutter, 2⅝ inches. Weight, 8¼ lbs..... " 2.20
**No. 033**—Ohio. Same as above..... " 3.25
**No. 34**—Bailey. Jointer. Length, 30 inches. Cutter, 2⅝ inches. Weight, 8½ lbs..... " 2.35
**No. 034**—Ohio. Same as above..... " 3 50

## STANLEY'S AND OHIO BLOCK.

**No. 101**—Stanley. Length, 3½ inches. Cutter, 1 inch. Weight, ¾ lb.....Each, $0.15
**No. 0101**—Ohio. Same as above..... " .20

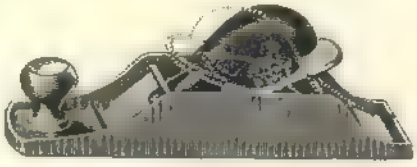
**No. 100**—Stanley. Length, 3½ inches. Cutter, 1 inch. Weight, ½ lb.....Each, $0 20
**No. 0100**—Ohio. Same as above..... " .30

**No. 102**—Stanley. Length, 5½ inches. Cutter, 1¼ inches. Weight, ⅞ lb.....Each, $0 30
**No. 0102**—Ohio. Same as above..... " .40
**No. 108**—Stanley. Adjustable. Length 5½ inches Cutter, 1¼ inches. Weight, ⅞ lb..... " .45
**No. 0108**—Ohio. Same as above..... " .60



**No. 110**—Stanley. Length, 7½ inches. Cutter, 1¾ inches. Weight, 1⅜ lbs.....Each, $0 45
**No. 0110**—Ohio. Same as above..... " 60

**No. 220**—Stanley. Adjustable. Length, 7½ inches. Cutter 1¾ inches Weight, 1½ lbs.....Each, $0 60
**No. 0220**—Ohio. Same as above..... " 85



**No. 180**—Stanley. Double ender. Length, 8 inches. Cutter, 1¾ inches. Weight, 1⅝ lbs.....Each, $0 60
**No. 0180**—Ohio. Same as above..... " 80

No. 101, six; balance, one in box

Extras for above, see pages 141 to 144.

# PLANES.

## BAILEY'S AND OHIO ADJUSTABLE BLOCK.

**No. 9½**—Bailey. Japanned trimmings. Length, 6 inches. Cutter, 1⅝ inches.....Each, $1.00
**No. 09½**—Ohio. Same as above..... 1 50
**No. 15**—Bailey. Japanned trimmings. Length, 7 inches. Cutter, 1⅝ inches..... " 1 10
**No. 015**—Ohio. Same as above..... " 1 60
**No. 16**—Bailey. Nickel trimmings. Length, 7 inches. Cutter, 1⅝ inches..... " 1.15
**No. 016**—Ohio. Same as above..... " 1.65
**No. 17**—Bailey. Nickel trimmings. Length, 7 inches. Cutter, 1⅝ inches..... " 1.25
**No. 017**—Ohio. Same as above..... " 1.75

Average weight, 1¾ lbs. each.

**No. 9¾**—Bailey. Rosewood handle. Length, 6 inches. Cutter, 1⅝ inches. Weight, 1¾ lbs.....Each, $1 20
**No. 09¾**—Ohio. Same as above..... " 1.75
**No. 15½**—Bailey. Rosewood handle. Length, 7 inches. Cutter, 1⅝ inches. Weight, 2 lbs..... " 1.30
**No. 015½**—Ohio. Same as above..... " 1.85

## KNUCKLE JOINT BLOCK.

**No. 18**—Bailey. Nickel trimmings. Length, 6 inches. Cutter, 1⅝ inches. Weight, 1½ lbs.....Each, $1.20
**No. 018**—Ohio. Same as above..... 1.75
**No. 19**—Bailey. Nickel trimmings. Length, 7 inches. Cutter, 1⅝ inches. Weight, 1¾ lbs..... " 1.30
**No. 019**—Ohio. Same as above..... " 1.85

## LOW ANGLE BLOCK.

**No. 60**—Nickel trimmings. Length, 6 inches. Cutter, 1⅝ inches. Weight, 1½ lbs.....Each, $1.15
**No. 65**—Nickel trimmings. Length, 7 inches. Cutter, 1⅝ inches. Weight, 1¾ lbs..... " 1.25
**No. 60½**—Length, 6 inches, Cutter, 1⅝ inches. Weight, 1¼ lbs..... " 1 00
**No. 65½**—Length, 7 inches. Cutter, 1⅝ inches. Weight, 1¾ lbs..... " 1.10

## BAILEY'S AND OHIO ADJUSTABLE.

**No. 1**—Bailey. Smooth. Length, 5½ inches. Cutter, 1¼ inches. Weight, 1¾ lbs.....Each, $1.50
**No. 2**—Bailey. Smooth. Length, 7 inches. Cutter, 1⅝ inches. Weight, 2¾ lbs..... " 1.85
**No. 02**—Ohio. Same as above..... " 2.75
**No. 3**—Bailey. Smooth. Length, 8 inches. Cutter, 1¾ inches. Weight, 3⅛ lbs..... " 2 00
**No. 03**—Ohio. Same as above..... " 3.00
**No. 4**—Bailey. Smooth. Length, 9 inches. Cutter, 2 inches. Weight, 5⅛ lbs..... " 2.20
**No. 04**—Ohio. Same as above..... " 3.25
**No. 4½**—Bailey. Smooth. Length, 10 inches. Cutter, 2⅜ inches. Weight, 5 lbs..... " 2 50
**No. 04½**—Ohio. Same as above..... " 3.75

**No. 5**—Bailey. Jack. Length, 14 inches. Cutter, 2 inches. Weight, 5 lbs.....Each, $2 50
**No. 05**—Ohio. Same as above..... " 3 75
**No. 5½**—Bailey. Jack. Length, 15 inches. Cutter, 2⅜ inches. Weight, 6 lbs..... " 2 85
**No. 05½**—Ohio. Same as above..... " 4 25
**No. 6**—Bailey. Fore. Length, 18 inches. Cutter, 2⅜ inches. Weight, 7 lbs..... " 3 20
**No. 06**—Ohio. Same as above..... " 4.75
**No. 7**—Bailey. Jointer. Length, 22 inches. Cutter, 2⅜ inches. Weight, 8 lbs..... " 3 65
**No. 07**—Ohio. Same as above..... " 5 50
**No. 8**—Bailey. Jointer. Length, 24 inches. Cutter, 2⅜ inches. Weight, 9½ lbs..... " 4 25
**No. 08**—Ohio. Same as above..... " 6 50

One in box. Extras for above, see pages 141 to 144

# PLANES.

## BAILEY'S AND OHIO ADJUSTABLE WITH CORRUGATED BOTTOMS.

**No. 2C**—Bailey. Smooth. Length, 7 inches. Cutter, 1⅝ inches. Weight, 2¼ lbs. Each $1 85
**No. 02C**—Ohio. Same as above " 2 75
**No. 3C**—Bailey. Smooth. Length, 8 inches. Cutter, 1⅝ inches. Weight, 3¼ lbs. " 2 00
**No. 03C**—Ohio. Same as above. " 3 00
**No. 4C**—Bailey. Smooth. Length, 9 inches. Cutter, 2 inches. Weight, 4 lbs. " 2 20
**No. 04C**—Ohio. Same as above. " 3 25
**No. 4½C**—Bailey. Smooth. Length, 10 inches. Cutter, 2⅜ inches. Weight, 5 lbs. " 2 50
**No. 04½C**—Ohio. Same as above. " 3.75

**No. 5C**—Bailey. Jack. Length, 14 inches. Cutter, 2 inches. Weight, 6 lbs. Each $2 50
**No. 05C**—Ohio. Same as above. " 3 75
**No. 6C**—Bailey. Fore. Length, 18 inches. Cutter, 2⅜ inches. Weight, 6 lbs. " 3 20
**No. 06C**—Ohio. Same as above. " 4.75
**No. 7C**—Bailey. Jointer. Length, 22 inches. Cutter, 2⅜ inches. Weight, 8¼ lbs. " 3.65
**No. 07C**—Ohio. Same as above. " 5 50
**No. 8C**—Bailey. Jointer. Length, 24 inches. Cutter, 2⅜ inches. Weight, 9¼ lbs. " 4.35
**No. 08C**—Ohio. Same as above. " 6 50

## BED ROCK.

| No. | | | | | | | Each. |
|---|---|---|---|---|---|---|---|
| **602** | —Smooth. | Length, 7 in. | Cutter, 1⅝ in. | Wgt., 2¼ lbs. | | | $2 15 |
| **603** | — " | " 8 " | " 1¾ " | " 3¼ " | | | 2 30 |
| **604** | — " | " 9 " | " 2 " | " 3¼ " | | | 2 50 |
| **604½** | — " | " 10 " | " 2⅜ " | " 5 " | | | 2 90 |

| No. | | | | | | | Each |
|---|---|---|---|---|---|---|---|
| **605** | —Jack | Length, 14 in. | Cutter, 2 in. | Wgt., 4½ lbs. | | | $2 90 |
| **605½** | — " | " 15 " | " 2⅛ " | " 6½ " | | | 3 25 |
| **606** | —Fore | " 18 " | " 2⅜ " | " 7¼ " | | | 3 50 |
| **607** | —Jointer | " 22 " | " 2⅜ " | " 8½ " | | | 4 20 |
| **608** | — " | " 24 " | " 2⅜ " | " 9¾ " | | | 5 00 |

## BED ROCK WITH CORRUGATED BOTTOMS.

| No. | | | | | | | Each |
|---|---|---|---|---|---|---|---|
| **603 C** | —Smooth. | Length, 8 in. | Cutter, 1¾ in. | Wgt., 3¼ lbs. | | | $2 90 |
| **604 C** | — " | " 9 " | " 2 " | " 3¾ " | | | 2 50 |
| **605 C** | —Jack. | " 14 " | " 2 " | " 4½ " | | | 2 90 |

| No. | | | | | | | Each |
|---|---|---|---|---|---|---|---|
| **606 C** | —Fore. | Length, 18 in. | Cutter, 2⅜ in. | Wgt., 7¼ lbs. | | | $3 50 |
| **607 C** | —Jointer. | " 22 " | " 2⅜ " | " 8½ " | | | 4 20 |
| **608 C** | — " | " 24 " | " 2⅜ " | " 9¾ " | | | 5.00 |

One in box. Extras for above, see pages 141 to 144.

# PLANES.

## SIDE RABBET.

A convenient tool for side rabbeting and trimming dados, mouldings and grooves of all kinds. A reversible cap-piece will give the tool a form by which it will work up close into corners.

**No. 98**—Right hand. Nickel-plated. Rosewood handle. 4 inches long. Weight, ¾ lb ..... Each, $0.00
**No. 99**—Left " " " " 4 " " " ..... " 0.0

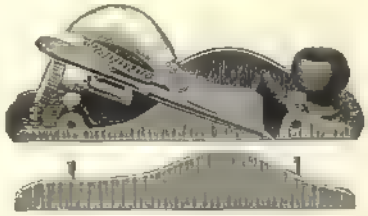
## BULL NOSE RABBET.

**No. 75**—Iron stock. Length, 4 inches. Cutter, 1 inch.
Weight, ¾ lb..... Each, $0.35

## ADJUSTABLE CABINET MAKERS' RABBET.

**No. 90**—Nickel plated. Length, 4 inches. Cutter, 1 inch. Weight, 1½ lbs..... Each, $2 00

## RABBET AND BLOCK.



**No. 140**—Stanley. Length 7 inches. Cutter, 1¾ inches. Weight 1 ¾ lbs ..... Each, $1.25
**No. 0140**—Ohio. Same as above..... " 1.25

## CARRIAGE MAKERS' RABBET.

**No. 10**—Stanley. Length, 13 inches. Cutter, 2⅛ inches. Weight, 4 ½ lbs ..... Each, $3 00
**No. 010**—Ohio. Same as above ..... " 4.50
**No. 10½**—Stanley. Length, 9 inches. Cutter, 2⅛ inches. Weight, 3¼ lbs. ..... " 2 50
**No. 010½**—Ohio. Same as above ..... " 3.75

## IMPROVED RABBET.

This Plane will lie perfectly flat on either side, and can be used with right or left hand equally well, while planing into corners or up against perpendicular surfaces.

All these planes are fitted with a depth gauge.

| No. | | | | | | | | Each |
|---|---|---|---|---|---|---|---|---|
| 180— | Length, 8 in | Cutter, 1½ in | | Weight, 2½ lbs | | | | $1 00 |
| 181— | " 8 " | " 1¾ " | | " 2¾ " | | | | 1 00 |
| 182— | " 8 " | " 1 " | | " 2 " | | | | 1 00 |
| 190— | " 8 " | " 1 ½ " | With spur | Wgt. 2½ lbs | | | | 1 15 |
| 191— | " 8 " | " 1¾ " | " | " 2¾ " | | | | 1 15 |
| 192— | " 8 " | " 1 " | " | " 2 " | | | | 1 15 |

## RABBET PLANE AND FILLETSTER.

The arm to which the fence is secured can be screwed into either side of the stock, thus making a superior right or left hand Fillester, with a bastarde spur and depth gauge.

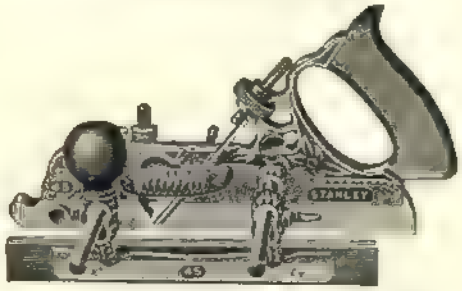
Remove the arm to which the fence is secured and a handled Rabbet Plane is had, and with two seats for the cutter, so that the tool can be used as a bull-nose rabbet if required.

**No. 78**—Length, 8½ inches. Cutter, 1½ inches.
Weight, 3 lbs..... Each, $1.60

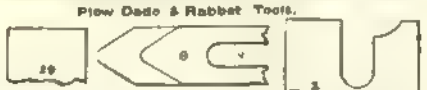
One in box. Extras for above, see pages 141 to 144.

# PLANES.

## ADJUSTABLE BEADING RABBET AND MATCHING.



Plow Dado & Rabbet Tools.



Slitting Tool. Sash Tool

Beading Tools. Match Tool

This plane combines a main stock and a sliding section so arranged that cutters of different widths can be used. Each plane is fitted with adjustable fence or guide and a depth gauge, and also with spurs for use in working across the grain. This plane can be used right or left hand.

This plane embraces (1) beading and center beading plane; (2) rabbet and filletster; (3) dado; (4) plow; (5) matching plane; (6) sash plane, and (7) a superior slitting plane.

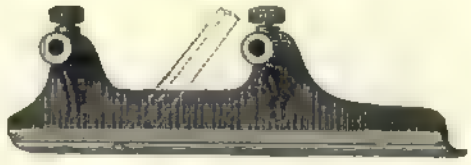
Each plane has 7 beading tools (⅛, 3/16, ¼, 5/16, ⅜, 7/16 and ½ inch), 10 plow and dado bits (⅛, 3/16, ¼, 5/16, ⅜, 7/16, ½, ⅝, ¾ and ⅞ inch), a slitting blade, a tonguing tool and a sash tool.

**No. 45**—Nickel-plated. Complete, with 20 tools, bits, etc. Weight, 9½ lbs. ..... Each, $8 00

## HOLLOWS AND ROUNDS.

For Plane No. 45.

Order only by numbers.



| Nos | 6 | 8 | 10 | 12 |
|---|---|---|---|---|
| Cutter, inches wide | ½ | ⅝ | ¾ | 1 |
| Works, " circle | ¾ | 1 | 1¼ | 1½ |
| Per pair | $1 40 | 1.40 | 1.40 | 1.40 |
| Weight, per pair, lbs | 1½ | 1¾ | 1¾ | 2 |

Cutters for above ..... Each, $0 20

One pair in box.

## NOSING TOOL.

For Plane No. 45.

**No. 5**—Nosing tool, 1¼ inches (attach same as hollows and rounds) ..... Each, $1 00

Cutters for above ..... " .25

One in box.

## REEDING TOOLS.

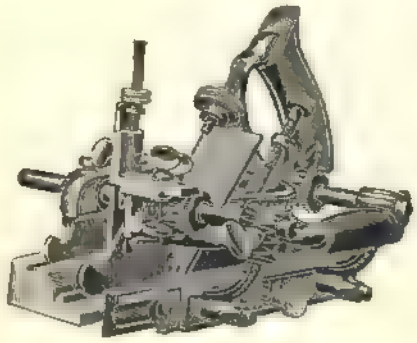
For Plane No. 45.

Size of beads either ⅜, 3/16 or ¼ inch.

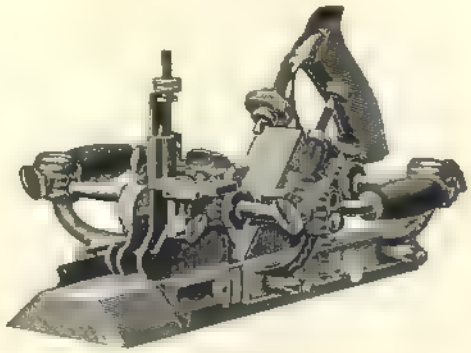
| Beads | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| Each | $0 20 | .30 | 40 | 50 |

In ordering, always state size and number of beads wanted

## STANLEY'S PATENT UNIVERSAL.



As Moulding Plane.



As Chamfer.

No. 55.

This tool, in the hands of an ordinary carpenter, can be used for all lines of work covered by a full assortment of so-called fancy planes.

### Directions.

MOULDING PLANE—Insert the desired cutter and adjust bottom of sliding section to conform to the shape of the cutter, then fasten this section firmly by means of the check-nuts on the transverse arms. When needed, adjust auxiliary center bottom for an additional support in front of the cutter. By fitting the rosewood guides on fences, mouldings of various angles may be formed.

MATCH, SASH, BEADING, REEDING, FLUTING, HOLLOW, ROUND, PLOW, RABBET AND FILLETSTER PLANE. Use in same manner as for mouldings. In working match and sash cutters, the auxiliary center bottom may be used as a stop.

DADO.—Remove the fences and set the spurs parallel with the edges of cutter. Insert long adjustable stop on left-hand side of sliding section.

SLITTING PLANE—Insert the cutter and stop on right-hand side of main stock and use either fence for guide.

CHAMFER.—Insert the desired cutter; fasten a fence on each side of the plane and tilt the rosewood guides to the required angle.

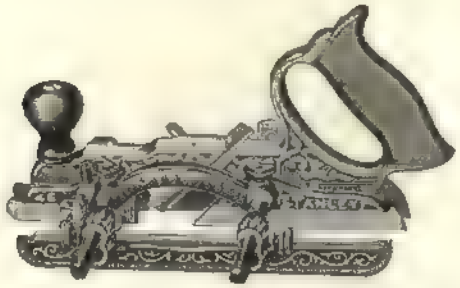
**No. 55**—Stanley's universal plane, with 52 tools, bits, etc. Weight, 14¼ lbs ..... Each, $16.00

The plane is nickel-plated, the 52 cutters are arranged in 4 separate cases, and the entire outfit is packed in a neat wooden box.

Extras for above, see pages 141 to 144.

# PLANES.

## TRAUT'S PATENT ADJUSTABLE DADO, FILLETSTER, PLOW, ETC.



Adjustable Dado, Filletster, Plow, Etc.

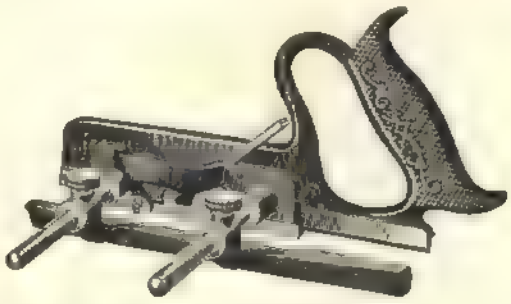
This tool is accompanied by 8 plow and dado bits (3/16, 1/4, 5/16, 3/8, 1/2, 5/8, 7/8 and 1 1/4 inches), a filletster cutter, a slitting blade and a tonguing tool. All, except the slitting blade, are secured in the main stock on a skew.

**No. 46**—Nickel-plated. With 11 tools, bits, etc.
Weight, 5¾ lbs.....Each, $7.00

Adjustable Dado.

**No. 47**—Nickel-plated. With bits 1/4, 3/8, 1/2, 5/8 and 1¼ inches, and slitting tool. Weight, 4 lbs.....Each, $4.00

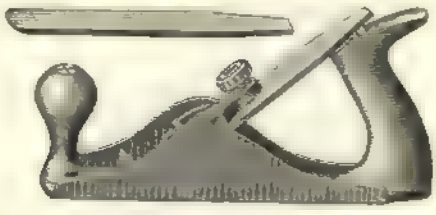
## COMBINED BEADING AND MATCHING.



By adjustment of the fence, center beading can be done up to five inches from the edge of a board. Except for working across the grain the spurs need not be used. Includes bits 1/4, 3/16, 1/4, 5/16, 3/8, 7/16 and 1/2 inch, and a pair of 1/4-inch matching tools

**No. 50**—Nickel-plated stock and fence. Weight, 3 lbs..Each, $4 00

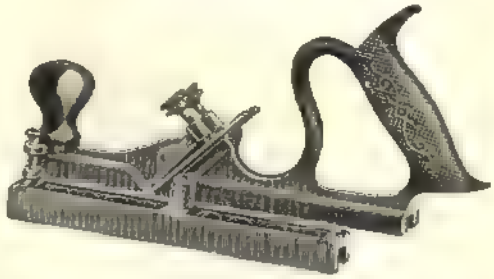
## IMPROVED SCRUB



This tool has a single iron, with the cutting edge rounded, and is particularly adapted for roughing down work before using a jack or other plane.

**No. 40**—Stanley. Iron stock. Length, 9½ inches.
Cutter, 1¾ inches. Weight, 2½ lbs .....Each, $1 00
**No. 040**—Ohio. Same as above.....1 00

## STANLEY'S ADJUSTABLE TONGUING AND GROOVING.

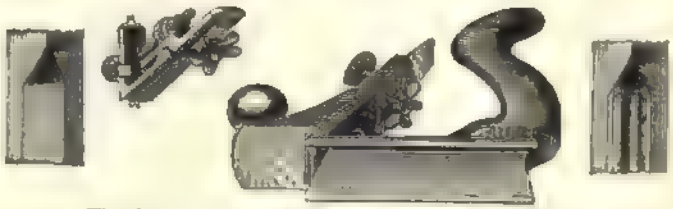


The plane has two separate cutters, a suitable distance apart. When the guide, or fence, is set as shown above, both cutters work and a tongue can be made.

The fence is hung on a pivot, and can be swung around, end for end. This movement covers one of the cutters, and also furnishes a guide for grooving an exact match for the tongue.

**No. 48**—Nickel-plated. For 1/4 to 1¼-inch boards.
Weight, 3 lbs.....Each, $2.50
**No. 49**—Nickel-plated For 1/4 to 1/4-inch boards.
Weight, 2½ lbs..... " 2.50

## ADJUSTABLE CHAMFER.

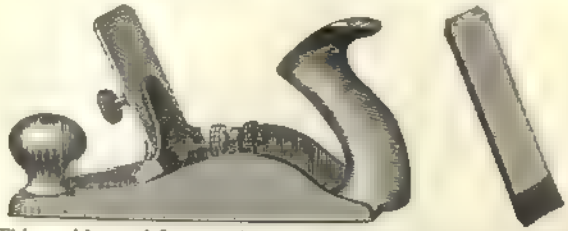


The front section of this plane is movable up and down. It can be firmly secured to the rear section at any desired point by means of a thumbscrew. Without the use of any other tool this plane will do perfect chamfer or stop-chamfer work of all ordinary widths.

For beading, reeding, or moulding a chamfer an additional section to this plane is furnished (price, $1 00), with six cutters sharpened at both ends, including a large variety of ornamental forms

**No. 72**—Length, 9 inches. Cutter, 1⅝ inches.
Weight, 1½ lbs..... Each, $2 00
**No. 72½**—With beading and moulding attachment.
Weight, 4 lbs..... " 3 00

## ADJUSTABLE SCRAPER.



This tool is used for scraping and finishing veneers or cabinet work. It can be used equally as well as a tooth plane and will do excellent work in scraping off old paint and glue.

**No. 112**—Adjustable scraper. Length, 9 inches.
Cutter, 3 inches. Weight, 4 lbs. Each, $2 00
**No. 0112**—Ohio. Same as above..... " 3 00

Extras for above planes, see pages 141 to 144.

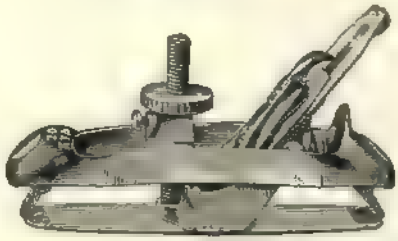
# PLANES.

## ADJUSTABLE CIRCULAR.

In this improved form of circular plane, the flexible steel face can be easily shaped to any required arc, either concave or convex, by turning the knob on the front of the plane.

| | Each |
|---|---|
| **No. 113**—Stanley. Cutter, 1¼ inches. Weight, 3¾ lbs. | $2 75 |
| **No. 0113**—Ohio. Same as above | 4 00 |

## VICTOR CIRCULAR.

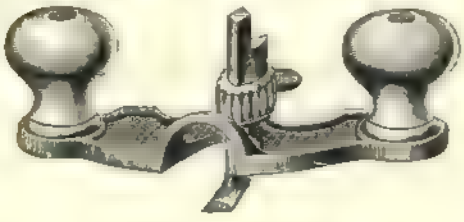


A very superior tool, and all its parts are specially designed with the object of eliminating any lost motion due to wear. There are less parts subject to lost motion in this plane than in any other circular plane. The ends of the flexible face being fixed and the force applied at the center, great accuracy of adjustment is possible and the face is most firmly held in position.

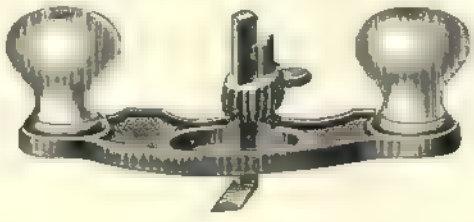
| | Each |
|---|---|
| **No. 20**—Nickel-plated. Cutter, 1¾ inches. Weight, 4 lbs. | $3 75 |
| **No. 20½**—Japanned. " 1¾ " " 4 " | 3.15 |

## WOOD WORKERS' RQUTER.

### REGULAR (OR OPEN THROAT.)



### WITH CLOSED THROAT.



Nickel-Plated.

The form of the stock to router plane No. 71 has been improved to allow heavy shavings or chips to clear freely on all sorts of coarse work. An additional yoke, or clamp, is now sent with each plane.

**No. 71**—Steel bits, (¼ and ⅜ inch). Weight, 2½ lbs...Each, $1.85

This tool will smooth the bottom of grooves, panels, or all depressions below the general surface of any wood-work, and will rapidly router out mortises for sash frame pulleys, etc.

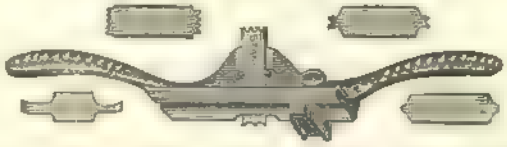
**No. 71½**—Steel bits (¼ and ⅜ inch). Weight, 2½ lbs...Each, $1.50

## SINGLE HANDED BEADER.

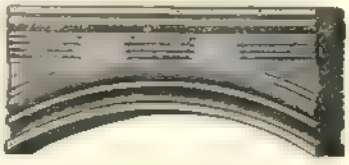
Single hand beader for beading, reeding or fluting, straight or irregular surfaces and for all kinds of light routering.

**No. 69**—Nickel-plated. With 6 steel cutters and 1 blank. Weight, 1½ lbs.....Each, $0 75
Extra cutters or blanks for same..... " .05

## UNIVERSAL HAND BEADER.



For beading, reeding or fluting straight or irregular surfaces, and for all kinds of light routering.



Sample of work done by beader.

Both ends of the cutters are sharpened, thus embracing 6 ordinary sizes of beads, 4 sets of reeds, 2 flutters and a double router, iron (⅜ and ½ inch).

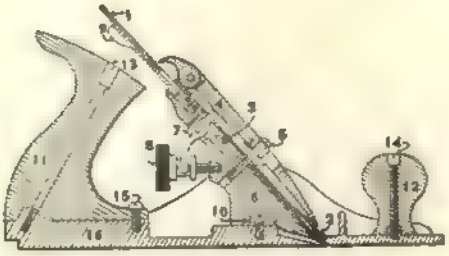
**No. 66**—Nickel-plated stock. With 7 steel cutters
Weight, 1⅝ lbs..... Each, $1.00
Extra cutters or blanks for same .. " .05

Extras for above planes, see pages 141 to 144.

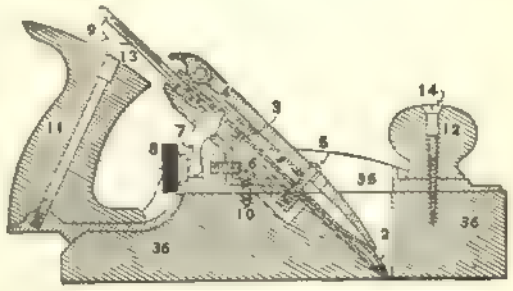
PACIFIC HARDWARE & STEEL COMPANY

# PARTS FOR IRON AND WOOD BOTTOM PLANES.

## PARTS OF BAILEY PLANES.



**No. 1**—Plane iron.
**No. 2**—Plane iron cap.
**No. 3**—Plane iron screw
**No. 4**—Cap.
**No. 5**—Cap screw.
**No. 6**—Frog.
**No. 7**—Y adjustment.
**No. 8**—Brass adjusting nut.
**No. 9**—Lateral adjustment.

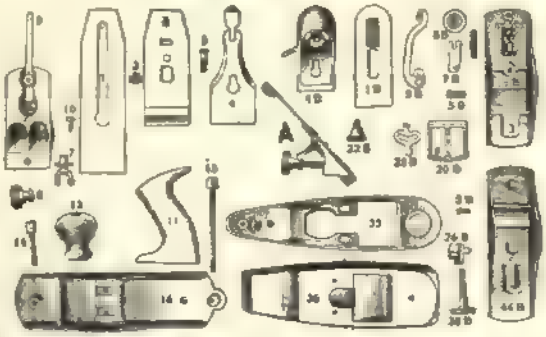


**No. 10**—Frog screw.
**No. 11**—Handle.
**No. 12**—Knob
**No. 13**—Handle "bolt and nut".
**No. 14**—Knob "bolt and nut".
**No. 15**—Handle screw.
**No. 16**—Bottom (iron plane).
**No. 35**—Top casting (wood plane).
**No. 36**—Bottom (wood plane).

## PARTS OF BLOCK PLANES.

Have **B** after the number.

**No. 1 B**—Plane iron.
**No. 4 B**—Cap.
**No. 5 B**—Cap screw.
**No. 7 B**—Adjusting lever.
**No. 8 B**—Adjusting nut.
**No. 9 B**—Lateral adjustment.
**No. 16 B**—Bottom (adjustable throat).



**No. 20 B**—Mouth-piece.
**No. 21 B**—Eccentric plate.
**No. 22 B**—Knob
**No. 26 B**—Adjustable frog.
**No. 28 B**—Adjusting screw.
**No. 46 B**—Bottom

In ordering, care should be taken to always give the number of the plane for which the part is wanted.

# PRICE LIST OF PARTS OF PLANES.

## BAILEY IRON PLANES.

| For Nos. | Bottom (No. 16) | Frog Complete | Cap | Handle | Knob | Bolt and Nut (13, | Iron Complete | Frog Screw (10 | Adjusting Nut Each | Frog Screw (10 Per Dozen | Cap Screw Per Dozen |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | $1.30 | $0 70 | $0 50 | $0 40 | $0 | $0 20 | $0 38 | $0 64 | $0 20 | $0 80 | $0 |
| 2 or 2 C | 1 70 | 70 | 50 | 4 | 50 | .20 | 42 | 70 | 20 | 80 | .80 |
| 3 or 3 C | 2 00 | 70 | 50 | 40 | 30 | 20 | 46 | .76 | .20 | 80 | .80 |
| 4 or 4 C | 2 00 | 70 | 50 | 40 | 30 | 20 | 50 | 84 | .20 | 80 | .80 |
| 4½ or 4½ C | 2.40 | 70 | 50 | 40 | 30 | 20 | .50 | 84 | .20 | 80 | .80 |
| 5 or 5 C | 2.40 | 70 | 50 | 40 | 30 | 20 | 50 | 84 | 20 | 80 | .80 |
| 5½ or 5½ C | 2 40 | 70 | 50 | 40 | 30 | 20 | 56 | 94 | .20 | 80 | .80 |
| 6 or 6 C | 3 30 | 70 | 50 | 40 | 30 | 20 | 58 | 96 | 20 | 80 | .80 |
| 7 or 7 C | 4.70 | 70 | 50 | 40 | 30 | 20 | 58 | 96 | .20 | 80 | .80 |
| 8 or 8 C | 5 70 | 70 | 50 | 40 | 30 | 20 | 64 | 1 00 | 20 | 80 | .80 |
| 9 | 6 00 | 70 | 50 | 40 | 30 | 20 | 50 | 76 | 20 | 80 | .80 |
| 10 or 10 C | 3 30 | 70 | 50 | 40 | .30 | 20 | 54 | 90 | .20 | 80 | .80 |
| 10½ or 10½ C | 3 00 | .70 | 50 | 40 | .30 | 20 | 54 | 90 | 20 | 80 | .80 |
| 11 | 2.40 | 70 | 50 | 60 | 30 | 20 | 58 | 96 | .20 | 80 | .80 |
| 12 | 2.40 | 70 | 50 | 70 | 30 | 20 | .40 | ... | 20 | .80 | 80 |

# PRICE LIST OF PARTS OF PLANES.

## BAILEY WOOD PLANES.

| For Nos. | Bottom (No 6 | Frog Complete, (A), | Cap, (4) | Handle, (11), | Knob (12) | Bolt and Nut, (13) | Iron, Single, (1), | Iron Double, (1 & 2), | Adjusting Nut (8), Each. | Top Casting, (3), Each. | Frog Screw, (14), Per Dozen. | Cap Screw, (5) Per Dozen. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | $0 80 | $0 60 | $0 40 | $0 20 | $0 20 | $0.20 | $0.46 | $0 76 | $0 20 | $0.40 | $0 80 | $0 80 |
| 22 | 80 | .60 | 40 | 20 | 20 | .20 | .46 | .76 | .20 | 40 | 80 | .80 |
| 23 | 80 | 60 | 40 | .20 | .20 | .20 | .46 | .76 | .20 | .40 | 80 | .80 |
| 24 | 80 | 60 | 40 | 20 | .20 | .20 | .50 | .84 | 20 | .40 | 80 | .80 |
| 25 | .80 | 60 | 40 | .20 | 20 | .20 | .46 | .72 | .20 | 40 | 80 | 80 |
| 26 | 1 00 | .60 | .40 | 20 | .20 | .20 | .50 | 84 | 20 | .40 | 80 | .80 |
| 27 | 1 00 | 60 | .40 | .20 | .20 | .20 | .54 | .90 | 20 | 40 | 80 | 80 |
| 27½ | 1 00 | .60 | .40 | 20 | 20 | .20 | .56 | .94 | 20 | 40 | 80 | 80 |
| 28 | 1 40 | 60 | 40 | 20 | 20 | .20 | .58 | 96 | 20 | 40 | 80 | .80 |
| 29 | 1 40 | .60 | 40 | 20 | .20 | .20 | .58 | 96 | 20 | 40 | 80 | 80 |
| 30 | 1 60 | .60 | 40 | 20 | .20 | .20 | .58 | 96 | 20 | 40 | 80 | .80 |
| 31 | 1 60 | 60 | 40 | 20 | .20 | .20 | 58 | 96 | 20 | 40 | 80 | .80 |
| 32 | 1 70 | .60 | 40 | 20 | 20 | 20 | .64 | 1 00 | 20 | 40 | 80 | 80 |
| 33 | 1 70 | .60 | 40 | 20 | .20 | .20 | .64 | 1 00 | .20 | 40 | 80 | .80 |
| 34 | 1 70 | .60 | 40 | 20 | 20 | 20 | 64 | 1 00 | 20 | .40 | 80 | .80 |
| 35 | 80 | .60 | 40 | 20 | 20 | .20 | .50 | 84 | 20 | 40 | 80 | .80 |
| 36 | 1.00 | 60 | 40 | 20 | .20 | .20 | .54 | .96 | .20 | .40 | .80 | .80 |
| 37 | 1 40 | .60 | .40 | .20 | .20 | .20 | .64 | 1.00 | .20 | .40 | .80 | .80 |

## BED ROCK PLANES.

| For Nos. | Bottom | Frog Complete. | Cap | Handle. | Knob. | Bolt and Nut. | Iron Single. | Iron, Double. | Adjusting Nut. Each. | Frog Screw. Per Dozen. | Cap Screw. Per Dozen. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 602 or 602 C | $2 20 | $1 00 | $0 60 | $0 40 | $0 30 | $0 20 | $0 42 | $0 70 | $0 20 | $0 80 | $0 80 |
| 603 or 603 C | 2 50 | 1 00 | 60 | 40 | 30 | .20 | 46 | 76 | 20 | 80 | .80 |
| 604 or 604 C | 2 50 | 1 00 | 60 | 40 | 30 | 20 | 50 | 84 | 20 | .80 | .80 |
| 604½ or 604½ C | 3 00 | 1 00 | .60 | .40 | .30 | .20 | .58 | .96 | .20 | .80 | .80 |
| 605 or 605 C | 3.00 | 1.00 | .60 | .40 | .30 | .20 | .50 | .84 | .20 | .80 | .80 |
| 605½ or 605½ C | 3 20 | 1 00 | .60 | 40 | 30 | 20 | 56 | 94 | .20 | .80 | 80 |
| 606 or 606 C | 4 40 | 1 00 | .60 | 40 | 30 | 20 | 58 | 96 | .20 | .80 | 80 |
| 607 or 607 C | 6 20 | 1 00 | .00 | .40 | .30 | .20 | .58 | .96 | .20 | .80 | .80 |
| 608 or 608 C | 7.00 | 1.00 | .60 | .40 | .30 | .20 | .64 | 1.00 | .20 | .80 | .80 |

## BAILEY BLOCK PLANES.

| For Nos. | Bottom, (16 B | Cap (17 | Knob (22 B) | Adjusting Nut, (8 B), | Adjusting Lever (7 B, | Mouth Piece, (20 B) | Irons (1 B, | Eccentric Plate (21 B | Lateral Adjustment, (9 B Each |
|---|---|---|---|---|---|---|---|---|---|
| 9½ | $1 40 | $0.20 | $0.20 | $0.20 | $0.10 | $0.20 | $0 34 | $0.20 | $0 20 |
| 9¾ | 1 40 | .20 | .20 | .20 | .10 | .20 | .34 | .20 | .20 |
| 15 | 1.50 | .20 | .20 | .20 | .10 | .20 | .34 | .20 | 20 |
| 15½ | 1.50 | .20 | .20 | .20 | .10 | .20 | .34 | .20 | 20 |
| 16 | 1.40 | .30 | .20 | .20 | .10 | .20 | .34 | .20 | .20 |
| 17 | 1.50 | .30 | .20 | .20 | .10 | .20 | .34 | .20 | .20 |
| 18 | 1 40 | .40 | 20 | .20 | .10 | .20 | .34 | .20 | 20 |
| 19 | 1.40 | .40 | .20 | .20 | .10 | .20 | .34 | .20 | .20 |

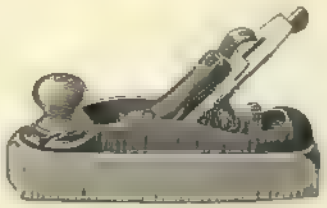
## CIRCULAR PLANES.

| For Nos. | Bottom. | Frog, Complete. | Cap. | Top Casting. | Handle. | Adjusting Nut. | Irons, Single. | Irons, Double Each | Frog Screw, Per Dozen | Cap Screw Per Dozen |
|---|---|---|---|---|---|---|---|---|---|---|
| 15 | $1 20 | $0 70 | $0 50 | $2 00 | ..... | $0 20 | $0 46 | $0 76 | $0 80 | $0 80 |
| 20 and 20½ | 1 20 | 70 | .50 | 3.00 | ..... | .20 | .46 | .76 | .80 | .80 |
| 118 | 1.20 | .70 | .50 | 2.00 | $0.30 | .20 | .46 | .76 | .80 | .80 |

# Adjustable Wood Planes.

## Bailey.

### Smooth.



Nos. 22 to 25.

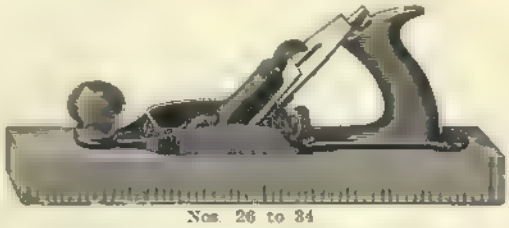
**No. 22**—Smooth, Length 8 in., 1¾ in. Cutter, Weight Each, 2½ lbs ... Each, $1 35
**No. 23**—Smooth, Length 9 in., 1¾ in. Cutter, Weight Each, 2⅝ lbs . . . Each, 1 35
**No. 24**—Smooth, Length 8 in., 2 in. Cutter, Weight Each, 2¾ lbs..... Each, 1 35
**No. 25**—Block, Length 9½ in., 1¾ in. Cutter, Weight Each, 2⅝ lbs..... Each, 1 35

### Handled Smooth.

Nos. 35 to 37.

**No. 35**—Handled, Length 9 in., 2 in. Cutter, Weight Each, 5¼ lbs . Each, $1 70
**No. 36**—Handled, Length 10 in., 2⅜ in. Cutter, Weight Each, 4 lbs . . . Each, 1 85
**No. 37**—Jenny, Length 13 in., 2⅝ in. Cutter, Weight Each, 4⅞ lbs..... Each, 2 00

### Jack, Fore and Jointer.



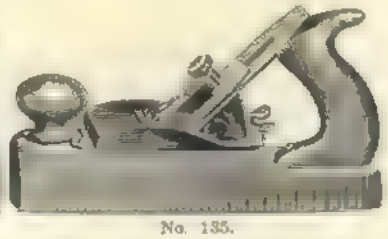
Nos. 26 to 34.

**No. 26**—Jack, Length 15 in., 2 in. Cutter, Weight Each, 4 lbs . Each, $1 50
**No. 27**—Jack, Length 15 in., 2⅛ in. Cutter, Weight Each, 4 lbs..... Each, 1 70
**No. 27½**—Jack, Length 15 in., 2¼ in. Cutter, Weight Each, 4⅛ lbs ..... Each, 1 70
**No. 28**—Fore, Length 18 in., 2⅜ in. Cutter, Weight Each, 5½ lbs..... Each, 1 85
**No. 29**—Fore, Length 20 in., 2⅜ in. Cutter, Weight Each, 5¾ lbs..... Each, 1 85
**No. 30**—Jointer, Length 22 in. 2⅜ in. Cutter, Weight Each, 6 lbs . Each, $2 00
**No. 31**—Jointer, Length 24 in., 2⅜ in. Cutter, Weight Each, 6 lbs..... Each, 2 00
**No. 32**—Jointer, Length 26 in., 2⅝ in. Cutter, Weight Each, 7½ lbs..... Each, 2 20
**No. 33**—Jointer, Length 28 in., 2⅝ in. Cutter, Weight Each, 8 lbs..... Each, 2 20
**No. 34**—Jointer, Length 30 in., 2⅝ in. Cutter, Weight Each, 8⅝ lbs..... Each, 2 85

## Stanley.

### Smooth.

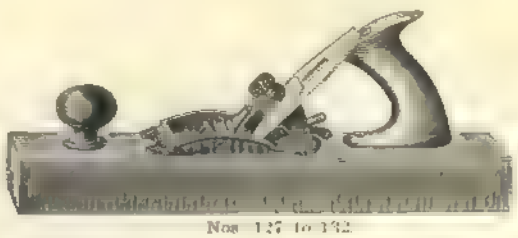
No. 122.



No. 135.

**No. 122**—Smooth, Length 8 in., 1¾ in. Cutter, Weight Each, 2½ lbs . . . Each, $1 00
**No. 135**—Handled, Smooth, Length 10 in., 2⅛ in. Cutter, Weight Each, 4 lbs Each, 1 35

### Jack, Fore and Jointer.



Nos. 127 to 132.

**No. 127**—Jack, Length 15 in., 2⅛ in. Cutter, Weight Each, 3½ lbs . Each, $1 35
**No. 129**—Fore, Length 20 in., 2⅜ in. Cutter, Weight Each, 5 lbs Each, 1 50
**No. 132**—Jointer, Length 26 in., 2⅝ in. Cutter, Weight Each, 6¾ lbs..... Each, 1 70

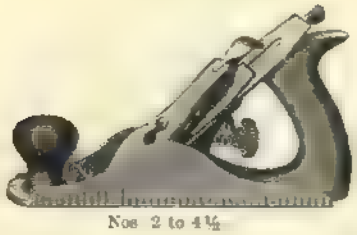
One in a Box.

Prices for Extra Parts, see Pages 156 and 157.

# Adjustable Iron Planes.

## Bailey.

### Smooth.



Nos. 2 to 4½

**No. 2**—Smooth, Length 7 in., Cutter 1⅝ in., Weight Each, 2⅜ lbs ..... Each, $1 85

**No. 3**—Smooth, Length 8 in., Cutter 1¾ in., Weight Each, 3⅛ lbs ..... Each, 2 00

**No. 4**—Smooth, Length 9 in., Cutter 2 in., Weight Each, 3⅝ lbs ..... Each, 2 20

**No. 4½**—Smooth, Length 10 in., Cutter 2⅜ in., Weight Each, 4¼ lbs ..... Each, 2 50

### Jack, Fore and Jointer.

Nos. 5 to 8.

**No. 5**—Jack, Length 14 in., Cutter 2 in., Weight Each, 4⅝ lbs ..... Each, $2 50

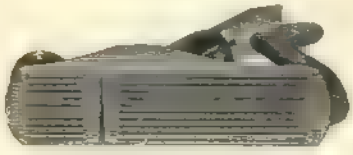
**No. 6**—Fore, Length 18 in., Cutter 2⅜ in., Weight Each, 7⅛ lbs ..... Each, 3 20

**No. 7**—Jointer, Length 22 in., Cutter 2⅜ in., Weight Each, 7¾ lbs ..... Each, 3 65

**No. 8**—Jointer, Length 24 in., Cutter 2⅝ in., Weight Each, 9½ lbs ..... Each, 4 35

## Bailey's Corrugated Bottom.

### Smooth.



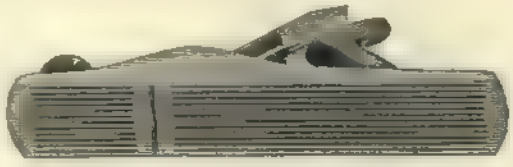
Nos. 3C to 4½C

**No. 3C**—Smooth, Length 8 in., Cutter 1¾ in., Weight Each, 3¼ lbs ..... Each, $2 00

**No. 4C**—Smooth, Length 9 in., Cutter 2 in., Weight Each, 3⅝ lbs ..... Each, 2 20

**No. 4½C**—Smooth, Length 10 in., Cutter 2⅜ in., Weight Each, 4¾ lbs ..... Each, 2 50

### Jack, Fore and Jointer.



Nos. 5 to 8C

**No. 5C**—Jack, Length 14 in., Cutter 2 in., Weight Each, 4⅝ lbs ..... Each, $2 50

**No. 5½C** Jack, Length 15 in., Cutter 2¼ in., Weight Each, 6¼ lbs ..... Each, 2 85

**No. 6C** Fore, Length 18 in., Cutter 2⅜ in., Weight Each, 7⅛ lbs ..... Each, 3 20

**No. 8C**—Jointer, Length 24 in., Cutter 2⅝ in., Weight Each, 9½ lbs ..... Each, 4 85

## Stanley Bed Rock Planes.

Nos. 603 to 604½. Nos. 605 to 608

**No. 603**—Smooth, Length 8 in., Cutter 1¾ in., Weight Each, 3¼ lbs ..... Each, $2 30

**No. 604**—Smooth, Length 9 in., Cutter 2 in., Weight Each, 3¾ lbs ..... Each, 2 50

**No. 604½**—Smooth, Length 10 in., Cutter 2⅜ in., Weight Each, 4¾ lbs ..... Each, 2 90

**No. 605**—Jack, Length 14 in., Cutter 2 in., Weight Each, 4⅝ lbs ..... Each, $2 90

**No. 606** Fore, Length 18 in., Cutter 2⅜ in., Weight Each, 7⅛ lbs ..... Each, 3 50

**No. 607**—Jointer, Length 22 in., Cutter 2⅜ in., Weight Each, 7¾ lbs ..... Each, 4 20

**No. 608**—Jointer, Length 24 in., Cutter 2⅝ in., Weight Each, 9½ lbs ..... Each, 5 00

These Planes have a Frog with a machined face so constructed that the entire bottom of the Frog rests solidly on a seat formed in the Plane body. A Frog so designed that its sides conform to guides formed in the Plane body which prevents any possibility of its wobbling.

All Above One in a Box.

Price for Extra Parts, see Page 156.

# Adjustable Iron Planes.

## Bailey.

Nos. 9½ and 15

These Planes have the "Handy" feature, adjustable throat, Bailey adjustment and Lateral adjustment.

**No. 9½**—Block, Length 6 in., Cutter 1⅝ in., Weight 1½ lbs. Each, $1 00

**No. 15**—Block, Length 7 in., Cutter 1¾ in., Weight 2 lbs. Each, 1 10

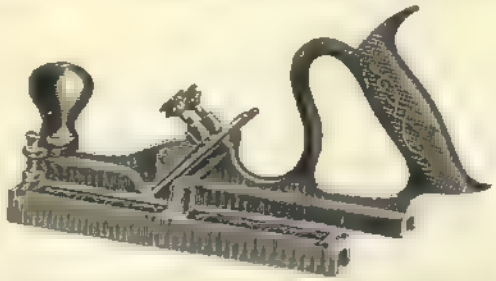
Nos. 60 and 65

These Planes have the cutters set at a very low angle which is of great advantage when working across the grain. The adjustment is of a most approved design.

**No. 60**—Low Angle Block, Length 6 in., Cutter 1½ in., Weight Each, 2¼ lbs. Each, $1 15

**No. 65**—Low Angle Block, Length 7 in., Cutter 1¾ in., Weight Each, 2½ lbs. Each, 1 25

## Stanley Tonguing and Grooving.



The Plane has two separate cutters, a suitable distance apart. When the guide, or fence is set, both cutters work and a tongue can be made.

The fence is hung on a pivot, and can be swung around, end for end. This movement covers one of the cutters, and also furnishes a guide for grooving an exact match for the tongue.

**No. 48**—N. P. Stock and Fence for ¾ to 1¼ Boards, Weight Each, 3½ lbs. Each, $2 50

**No. 49**—N. P. Stock and Fence for ⅜ to ⅝ in. Boards. " 2 50

## Stanley Side Rabbet.

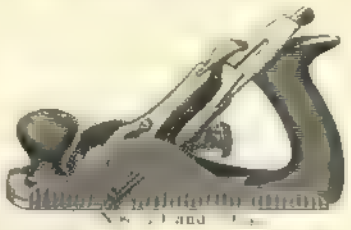
A convenient tool for side-rabbeting and trimming dados, mouldings and grooves of all sorts. A reversible nose-piece will give the tool a form by which it will work close up into corners when required.

**No. 98**—Length 4 in., Right Hand. Each, $0 90

**No. 99** " 4 " Left " " 90

Extra Cutters for Above " 20

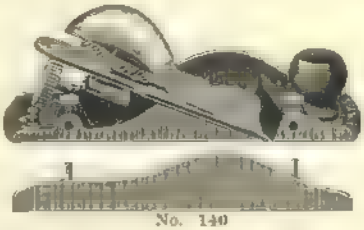
## Bailey Carriage Makers' Rabbet.



**No. 10**—Rabbet, Length 13 in., Cutter 2⅛ in., Weight Each, 4¼ lbs. Each, $3 00

**No. 10½**—Rabbet, Length 9 in., Cutter 2⅛ in., Weight Each, 3½ lbs. Each, 2 50

## Stanley Rabbet and Block.



No. 140

A detachable side will easily change this tool from a Block Plane to a Rabbet Plane, or vice versa. The cutter is set on a skew.

**No. 140**—Rabbet and Block Plane, with Detachable Side. Length 7 in., Cutter 1⅝ in., Weight Each, 2 lbs. Each, $1 25

Extra Cutters for Above " 20

## Stanley Bull-Nose Rabbet.

No. 75

**No. 75**—Iron Stock, Length 4 in., Cutter 1 in., Weight Each, ¾ lb. Each, $0 35

Extra Cutters for Above. " 10

## Stanley Adjustable Bull-Nose Rabbet.

No. 90

**No. 90**—Rabbet Plane, Length 4 in., Cutter 1 in. Each, $2 00

Extra Cutters for Above " 30

All Above One in a Box.

Prices for Extra Parts, see Pages 156 and 157.

# Adjustable Iron Block Planes.

## Stanley.

No. 100.

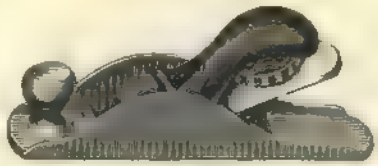
No. 101.

No. 102

**No. 100**—Handled Block, Length 3½ in., Cutter 1 in., Weight Each, ¾ lb. . . Each, $0 20
**No. 101**—Block, Length 3½ in., Cutter 1 in., Weight Each, ⅝ lb ..... " 0 15
**No. 102** " " 5½ " " 1¼ in., " " 1 " ..... " 0 30

No. 103.

**No. 103**—Adjustable Block, Length 5½ in., Cutter 1¼ in., Wt. Each, 1 lb. Each, $0 45

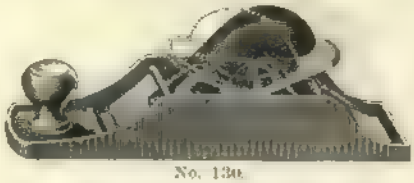

No. 110.

**No. No. 110**—Block, Length 7½ in., Cutter 1¾ in., Weight Each, 1½ lb . . . Each, $0 45

No. 220

The adjustment of the No 220 is of a recent design, and a great improvement over any adjustment heretofore offered on any Block Plane at equal price.

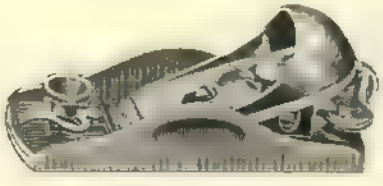
**No. 220**—Adjustable Block, Length 7½ in., Cutter 1¾ in., Weight Each, 1¾ lbs..... Each, $0 60


No. 130.

This Plane has two slots, and two cutter seats. It can be used as a Block Plane, or, by reversing the position of the cutter and the clamping wedge (see dotted lines in the engraving), it can be used to plane close up into corners, or places difficult to reach with any other plane.

**No. 130**—Block, Double Ender, Length 8 in., Cutter 1¾ in., Wt. Each, 2 lbs..Each, $0 60

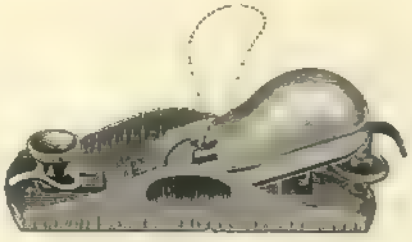
## Bailey.


Nos. 16 and 17

These Planes are now made with the "Handy" feature, which gives the workman a more secure grip on the tool than is possible in any other design.

**No. 16**—Nickel Trimmings, Length, 6 in., 1¾ in. Cutter, Weight Each, 1½ lbs....Each, $1 15

**No. 17**—Nickel Trimmings, Length 7 in., 1¾ in. Cutter, Weight Each, 1¾ lbs....Each, $1 25


Nos. 18 and 19.

The knuckle joint in the cap makes it a lever, too; and placing the cap in position, will also clamp the cutter securely in its seat.

These Planes have the "Handy" feature, adjustable throat, Bailey adjustment and Lateral adjustment.

**No. 18**—Knuckle Joint, Length, 6 in., Cutter 1¾ in., Weight Each, 2¼ lbs....Each, $1 20
**No. 19**—Knuckle Joint, Length, 7 in., Cutter 1¾ in., Weight Each, 2½ lbs....Each, $1 30

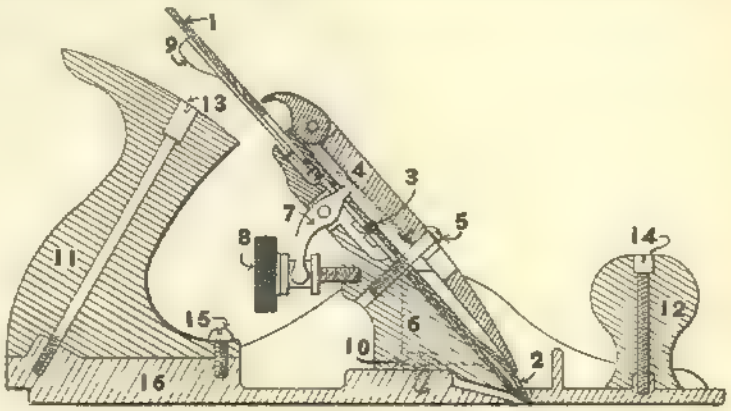
One in a Box.

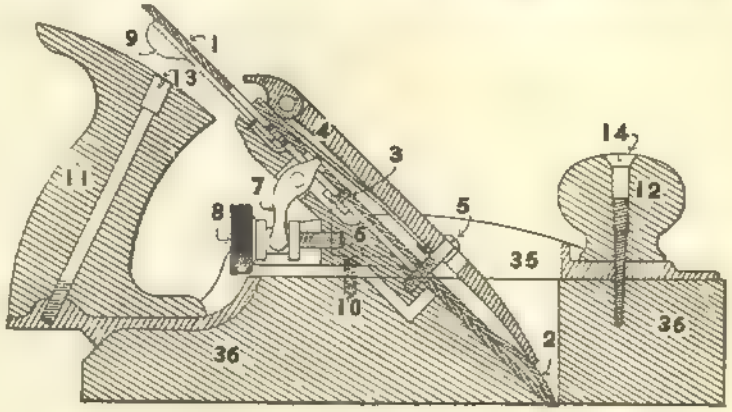
Prices for Extra Parts, see Pages 156 and 157. Prices for Extra Cutters, see Page 154.

# Parts for Planes.

A Price List of Parts of Planes, shown below, will be found on pages 156 and 157.
Ten Cents will be the minimum charge for parts sent by mail.
In ordering, care should be taken to always give the number of the Plane for which the Part is wanted.

## Parts of Bailey Planes.

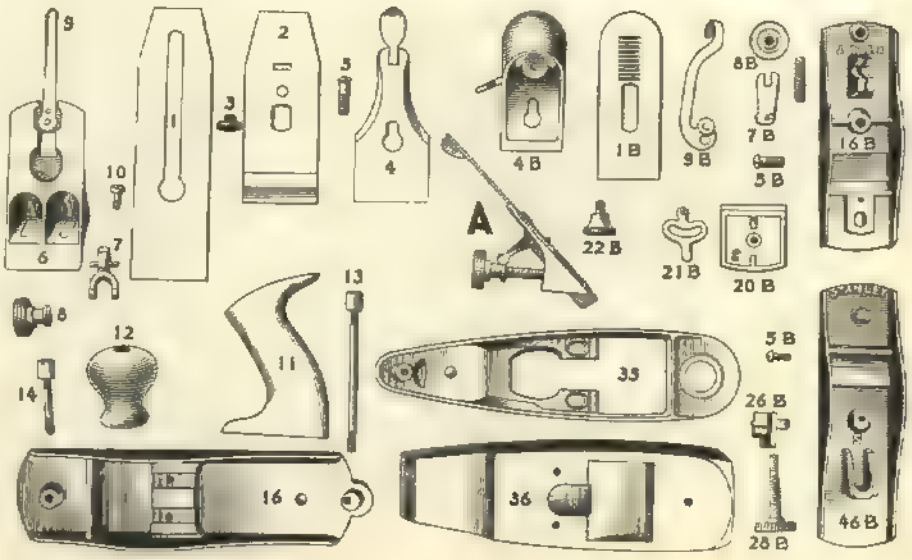



No.
- **1** Plane Iron.
- **2** Plane Iron Cap.
- **3** Plane Iron Screw.
- **4** Cap.
- **5** Cap Screw.
- **6** Frog.
- **7** "Y" Adjustment.
- **8** Brass Adjusting Nut
- **9** Lateral Adjustment.
- **10** Frog Screw.
- **11** Handle.
- **12** Knob.
- **13** Handle "Bolt and Nut."
- **14** Knob "Bolt and Nut."
- **15** Handle Screw.
- **16** Bottom (Iron Plane).
- **35** Top Casting (Wood Plane).
- **36** Bottom (Wood Plane).

## Parts of Block Planes.

Have **B** after the number.




No
- **1B** Plane Iron
- **4B** Cap.
- **5B** Cap Screw.
- **7B** Adjusting Lever.
- **8B** Adjusting Nut.
- **9B** Lateral Adjustment.
- **16B** Bottom (Adjustable Throat).
- **20B** Mouth Piece.
- **21B** Eccentric Plate.
- **22B** Knob.
- **26B** Adjustable Frog
- **28B** Adjusting Screw.
- **46B** Bottom.

# Wood Bench Planes.

## Smooth.

No. 3.

**No. 3**—Double Irons, 2, 2⅛ and 2¼ in. Wide, Weight Each, 8 lbs.....Each, $0 90

## Handled Smooth.

No. 5.

**No. 5**—Double Irons, 2, 2⅛ and 2¼ in. Wide, Weight Each, 3 lbs.....Each, $1 75

## Jack.

No. 15.

**No. 15**—Double Irons, 2, 2⅛ and 2¼ in. Wide, Weight Each, 4½ lbs .....Each, $1 00

## Jack Handle.

**No. 5½**—Double Irons, 2, 2⅛ and 2¼ in. Wide, Weight Each, 3 lbs.....Each, $1 50

## Jack-Razee.

No. 17.

**No. 17**—Double Irons, 1¾, 1⅞ and 2 in. Wide, Weight Each, 4 lbs.....Each, $1 20

## Fore.

No. 21.

**No. 21** Length 22 in., Double Irons, 2⅜ and 2½ in. Wide, Wt. Each, 6 lbs....Each, $1 40

## Fore-Razee.

No. 23.

**No. 23**—Length 22 in., Double Irons, 2¼ in and 2⅜ in. Wide, Weight Each, 5½ lbs.....Each, $1 60

## Jointer-Razee.

No. 29.

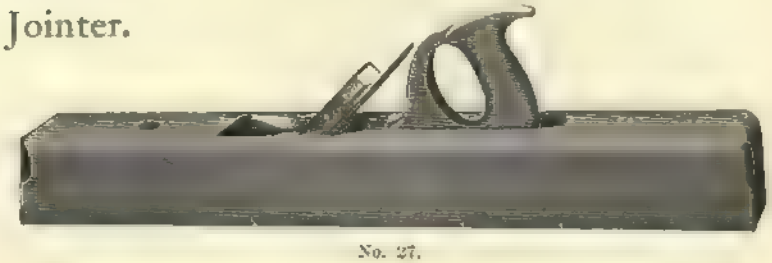
**No. 29**—Length 26 in., Double Irons, 2½ in. Wide, Wt. Each, 9 lbs...Each, $1 75

**No. 29**—Length 28 in. Double Irons, 2½ in. Wide, Wt. Each, 10 lbs...Each, $1 85

## Jointer.

**No. 27**—Length 26 in., Double Irons, 2⅝ in. Wide, Weight Each, 10 lbs. .....Each, $1 50

**No. 27**—Length 28 in., Double Irons, 2⅝ in. Wide, Weight Each, 11 lbs. .....Each, 1 60



No. 27.

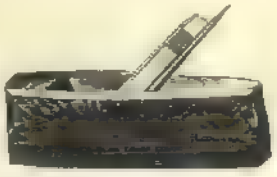
# Wood Planes.

## Oar, Smooth.

No. 31½.

**No. 31½**—Smooth, Double Irons, Weight Each, 2½ lbs. . . . . Each, $2 25

## Ship, Smooth.

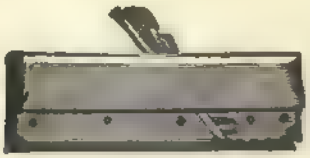


No. 118.

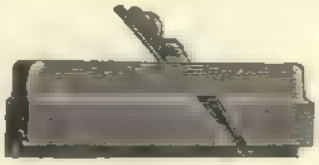
**No. 118**—Smooth, Length 9 in., Double Irons, 1¾ in. Wide, Wt. Each, 2½ lbs., Each, $1 00

# Fancy Wood Planes.

## Match.

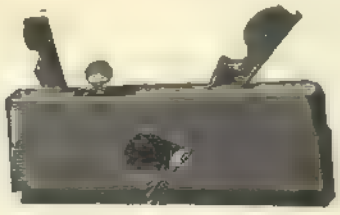


One Pair of No. 76.



**No. 76**—½, ⅝, ¾, ⅞, and 1 in., Plated. Weight per Pair, 2½ lbs . . Per Pair, $1 75

## Screw Stop Dado.



No. 48.

**No. 48**—⅜ to 1 in., Weight Each, 2¼ lbs, . . . . Each, $1 50

## Filletster, With Stop.

No. 53.

**No. 53**—With Cutter, 1½ in., Weight Each, 3¾ lbs. . . . . Each, $1 40

**No. 54**—With Cutter, 1½ in., Boxed, Weight Each, 3¾ lbs. . . . . Each, 1 85

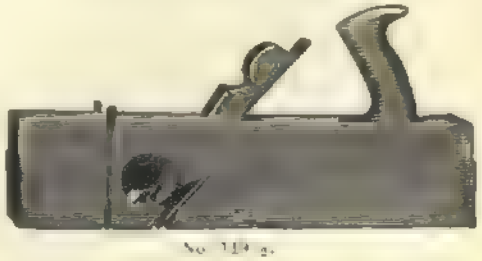
## Skew Rabbet.

No. 116.

**No. 116. Skew Rabbet.**

| Size, inch. . . . . | ½ to 1 | 1¼ | 1½ |
|---|---|---|---|
| Each . . . . . | $0 60 | 0 65 | 0 70 |

## Handled Jack Rabbet.



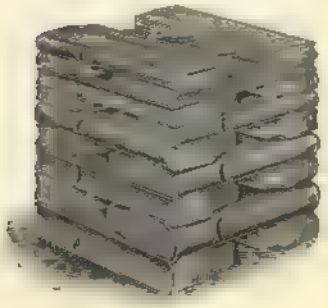
No. 119½.

**No. 119½. Jack Rabbet, Handle on side, 2 Cutters.**

| Size, inch. . . . . | 1 | 1¼ | 1½ | 2 |
|---|---|---|---|---|
| Each. . . . . | $1 90 | 1 90 | 1 90 | 1 90 |

# Fancy Wood Planes.

## Hollow and Rounds.



No. 72.

| Nos. | 3 | 4 | 5 | 6 | 7 | 9 | 11 |
|---|---|---|---|---|---|---|---|
| Weight per Pair, lbs | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3½ |
| Works, inch | ½ | ⅝ | ¾ | ⅞ | 1 | 1¼ | 1½ |
| Circle, inch | 1 | 1¼ | 1½ | 1¾ | 2 | 2½ | 3 |
| Per Pair | $1 00 | 1 00 | 1 00 | 1 00 | 1 15 | 1 15 | 1 35 |

## Single Boxed Side Bead.

No. 37

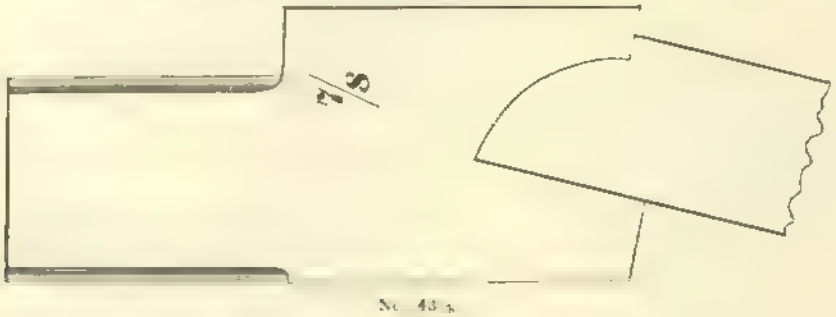
| No. 37—Size, inch | 3/16 to ½ |
|---|---|
| Weight Each, lbs | ¾ |
| Each | $0 50 |

## Double Boxed Center Bead.

No. 41

| No. 41—Size, inch | 3/16 to ½ |
|---|---|
| Weight Each, lbs | ¾ |
| Each | $0 60 |

## Casing Moulding, With Fence.




No. 43⅛

| No. 43⅛—Size, inch | ¾ | ⅞ | 1 |
|---|---|---|---|
| Weight Each, lbs. | 1½ | 1½ | 1¾ |
| Each | $0 80 | 0 90 | 0 90 |

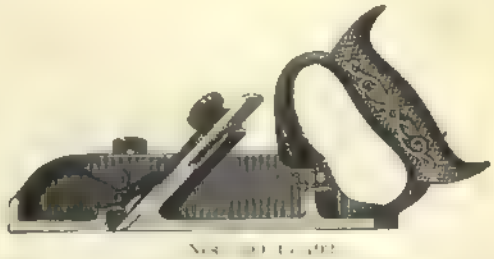
All Above Packed as Ordered.

# Rabbet Plane and Filletster.

The arm to which the fence is secured can be screwed into either side of the stock, thus making a superior right or left hand Filletster, with adjustable spur and depth gauge.

**No. 78**—Iron Stock and Fence, Length 8½ in., 1½ in. Cutter, Weight Each, 3 lbs.....Each, $1 50
Cutters for above plane..... " 0 20

# Improved Rabbet Plane.



Iron Stock, Length 8 in., with Depth Gauge and Spur.

| Nos. | 190 | 191 | 192 |
|---|---|---|---|
| Width, inch | 1½ | 1¼ | 1 |
| Each | $1 15 | 1 15 | 1 15 |
| Extra Cutters for Above | | | Each, $0 20 |

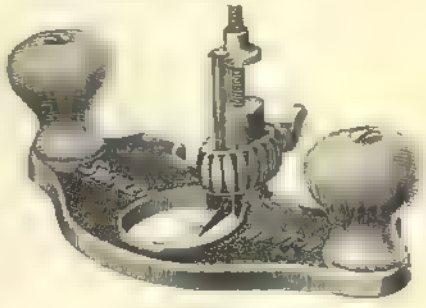
Weight Each, 2½ lbs.

# Woodworkers' Handy Router Planes.

With Open Throat.

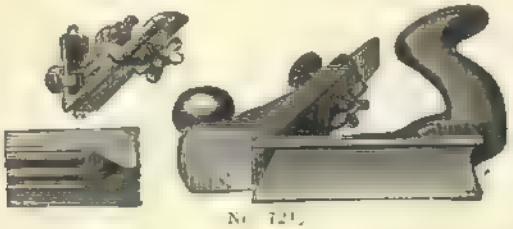
**No. 71**—Nickel Plated Iron Stock, with Steel Bits, ¼ and ½ in., Weight Each, 2¾ lbs.....Each, $1 85

With Closed Throat.



**No. 71½** Nickel Plated Stock with Steel Bits, ¼ and ½ in., Wt. Each, 2¾ lbs., Each, $1 50

# Chamfer Plane.

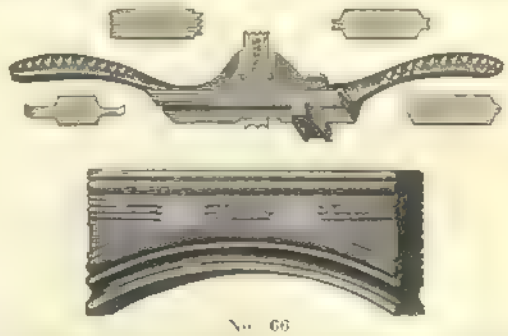


The front section of this Plane is movable up and down. It can be firmly secured to the rear section at any desired point by means of a thumb-screw. Without the use of any other tool, this Plane will do perfect chamfer or stop-chamfer work of all ordinary widths.

For Beading, Reeding or Moulding a chamfer, an additional section to this Plane is furnished (price $1.00) with six cutters, sharpened at both ends, including a large variety of ornamental forms

**No. 72**—Chamfer Plane, Length 9 in., Cutter 1⅝ in., Weight Each, 3¾ lbs.....Each, $2 00
**No. 72½**—As above, with Beading and Moulding Attachment, 4½ lbs.....Each, 3 00
Extra Cutters for above ..... " 0 20

# Stanley Universal Hand Beader.



For Beading, Reeding or Fluting straight or irregular surfaces, and for all kinds of light Routering. With a square gauge for straight, and an oval gauge for curved work. Seven superior steel cutters go with each tool. Both ends are sharpened, thus embracing six ordinary sizes of Beads, four sets of Reeds, two Fluters and a double Router Iron (⅛ and ¼ in.)

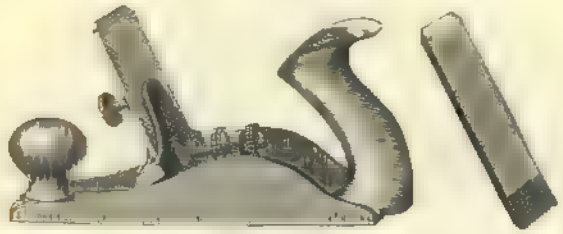
**No. 66**—Iron Stock, with Seven Steel Cutters, Weight Each, 1½ lbs.....Each, $1 00
Extra Cutters or Blanks for same " 0 05

All Above One in a Box.

Price for Extra Parts, see Page 157.

# Iron Planes.

## Adjustable Scraper.



No. 11.

This Tool is used for scraping and finishing Veneers or Cabinet work. It can be used equally well as a Tooth Plane; and will do excellent work in scraping off old paint and glue.

Cutters for Toothing can be furnished having either 22, 28 or 32 teeth to the inch. An extra charge is made for each Toothing Cutter.

**No. 112**—Adjustable Scraper, Length 9 in., Cutter 3 in., Weight Each, 3⅝ lbs ..... Each, $2 00
Extra Cutters for Veneer Scraping ..... " 0 20
Extra Cutters " Tooth " ..... " 0 30

## Stanley Improved Scrub.

No. 40.

This Tool has a single iron with the cutting edge rounded. It is particularly adapted for roughing down work before using a Jack or other Plane.

**No. 40**—Scrub Plane, Length 9½ in., Cutter 1¼ in., Weight Each, 3¾ lbs..... Each, $1 00
Extra Cutters for Above Plane ..... " 0 25

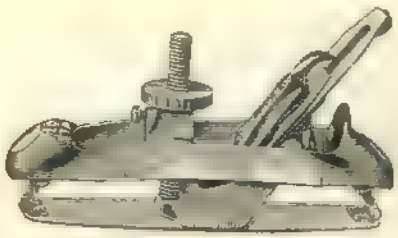
## Circular.

No. 113

This Plane has a Flexible Steel Face, which can be easily shaped to any required arc, either concave or convex, by turning the Knob on the front of the Plane.

**No. 113**—Adjustable Circular, Cutter 1¾ in., Weight Each, 5 lbs..... Each, $2 75

## Improved Victor Circular.



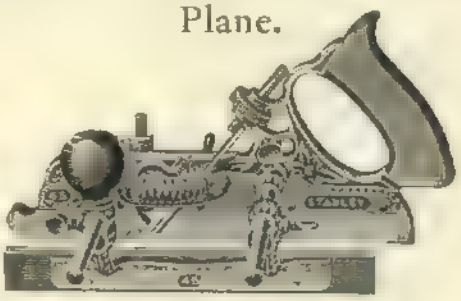
No. 20½.

There are less parts subject to lost motion in this Plane than in any other circular Plane. The ends of the flexible face being fixed and the force applied at the center, great accuracy of adjustment is possible and the face is most firmly held in position.

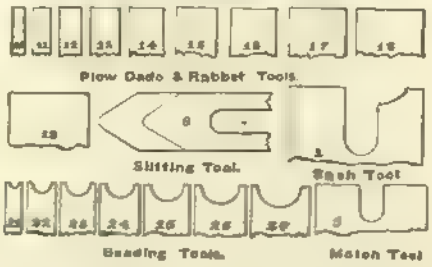
The flexible steel face of this Plane can be made concave or convex by turning the screw which is attached to its center.

**No. 20½**—Victor Circular, Cutter 1¾ in., Weight Each, 5 lbs..... Each, $8 15

## Adjustable Beading, Rabbet and Slitting Plane.



No. 45

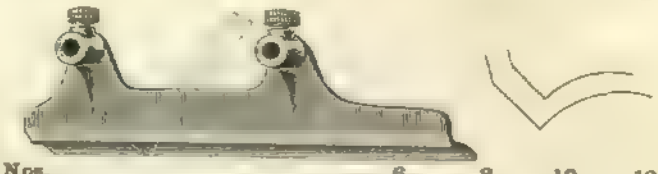



This Plane embraces (1) Beading and Center Beading Plane; (2) Rabbet and Filletster; (3) Dado; (4) Plow; (5) Matching Plane; (6) Sash Plane; and (7) a superior Slitting Plane.

Each Plane has seven Beading Tools (⅛, 5/16, ¼, 3/16, ⅜, 7/16 and ½ inch), ten Plow and Dado Bits (⅛, 3/16, ¼, 5/16, ⅜, 7/16, ½, 5/8, ¾ and ⅞ inch), a Slitting Blade, a Tonguing Tool and a Sash Tool.

**No. 45**—Nickel Plated, with Twenty Tools, Bits, etc., Weight Each, 10 lbs..... Each, $8 00

## Hollows and Rounds for Plane No. 45.

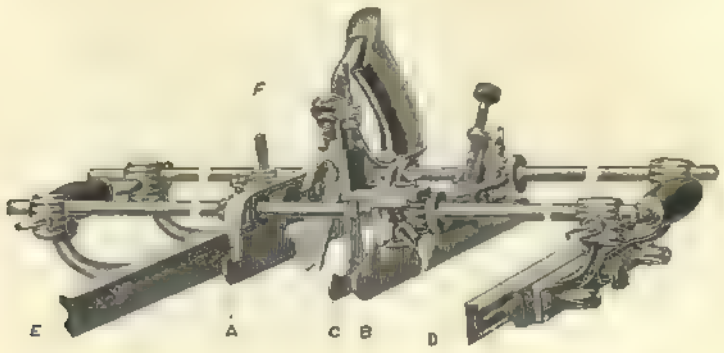


| Nos. | 6 | 8 | 10 | 12 |
|---|---|---|---|---|
| Cutter, Width, inch | ½ | ⅝ | ¾ | 1 |
| Works, Circle, inch | ¾ | 1 | 1¼ | 1½ |
| Per Pair | $1 40 | 1 40 | 1 40 | 1 40 |

All Above One in a Box.

Prices for Extra Parts, see Pages 156 and 157.

# Stanley Patent Universal Plane.




**No. 55**– Stanley Universal Plane, with 52 Tools, Bits, etc., Weight Each, 14¼ lbs. . . . Each, $16 00

This Tool, in the hands of an ordinary carpenter, can be used on all lines of work covered by a full assortment of so-called Fancy Planes. The Plane is Nickel plated, the 52 Cutters are arranged in four separate cases, and the entire outfit is packed in a neat Wooden Box.

This Plane consists of:

*A Main Stock* (*A*) with two sets of transverse sliding arms, a depth gauge (F) adjusted by a screw, and a Slitting Cutter with stop.

*A Sliding Section* (*B*) with a patent vertically adjustable bottom.

*The Auxiliary Center Bottom* (*C*) is to be placed in front of the Cutter, as an extra support, or stop, when needed. This bottom is adjustable both vertically and laterally.

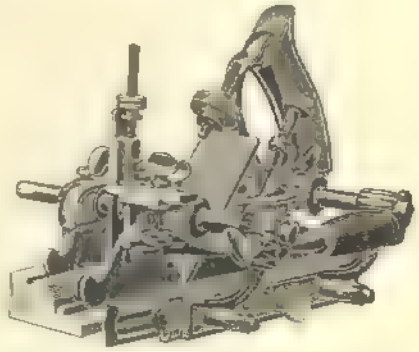
*Fences* (*D*) *and* (*E*). Fence D has a lateral adjustment by means of a screw, for extra fine work. The Fences can be used on either side of the Plane, and the rosewood guides can be tilted to any desired angle, up to 45°, by loosening the screws on the face. Fence (*E*) can be reversed for Center Beading wide boards.

*An Adjustable Stop* to be used in beading the edges of matched boards is inserted on the left-hand side of Sliding Section (B).

By means of the patent adjustable bottom and the auxiliary center bottom it is possible to use a cutter of practically any shape with this Plane.

Each Plane is sold with the Fifty-two (52) Cutters marked ◆ in upper Plate on page 154.

Cutters shown in lower plate, page 154, are kept in stock and will be furnished to order. Cutters are shown one-half size. Style, sizes and prices are given on page 154.



As Moulding Plane.

## Directions.

*Moulding Plane.*—Insert a Cutter and adjust bottom of Sliding Section (B) to conform to the shape of the Cutter; then, by means of the two Check-nuts on the transverse arms, fasten this section firmly—*before tightening* the Thumb-screws which secure the sliding section to the arms.

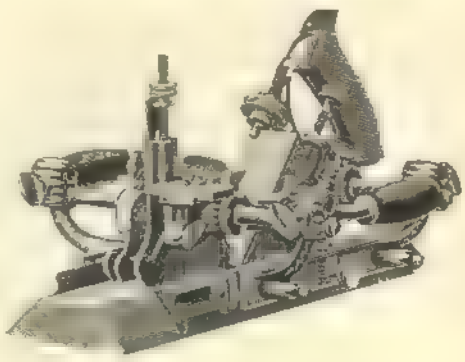
When needed adjust Auxiliary Center Bottom (C) for an additional support in front of the Cutter. By tilting the rosewood guides on Fences D and E, mouldings of various angles may be formed.

*Match, Sash, Beading, Reeding, Fluting, Hollow, Round, Plow, Rabbet and Fillelster Plane.*—Use in the same manner as for Mouldings. In working Match and Sash Cutters, the Auxiliary Center Bottom (C) may be used as a stop.

*Dado*—Remove the Fences (D and E) and set the spurs parallel with the edges of Cutter. Insert long Adjustable Stop on left-hand side of Sliding Section.

*Slitting Plane.*—Insert the Cutter and Stop on right-hand side of Main Stock, and use Fence D or E for guide.

*Chamfer.*—Insert the desired Cutter; fasten a Fence on each side of the Plane, and tilt the rosewood guides to required angle. For Chamfer Beading, use in the same form as above and feed the cutter down gradually by use of thumb nut for adjustment.

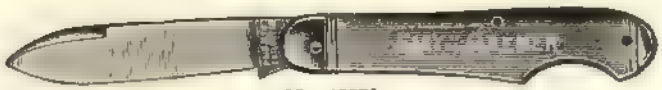


As Chamfer.

Cutters for Above, see Page 154.

# POCKET KNIVES.

## PALO ALTO.



No. 10070.

**No. 10070**—Easy opener. One blade, glazed. Polished metal handle. Polished steel bolster..... Per dozen, $2 50

No 20065

**No. 20065**—Easy opener Two blades, glazed. Engraved metal handle. Polished steel bolster..... Per dozen, $2.50

No. 24204

| | | | | |
|---|---|---|---|---|
| **No. 21204**—Easy opener | Two blades, glazed. | Cocoa handle. | Iron lined. Polished steel bolster..... | Per dozen, $3 50 |
| **No. 22204**— " " | " " " | Ebony " | " " " " " | " 3.50 |
| **No. 23204**— " " | " " " | White bone handle. | Iron lined. Polished steel bolster..... | " 3 50 |
| **No. 24204**— " " | " " " | Stag " | " " " " " | " 3 50 |

No. 01477.

**No. 01477**—Chain. One blade, glazed. Imitation stag, iron handle. Iron lined. Polished steel bolster..... Per dozen, $1.50

No. 02382

**No. 02382**—Chain. Two blades, glazed. Engraved iron handle. Polished steel bolster..... Per dozen, $3 00

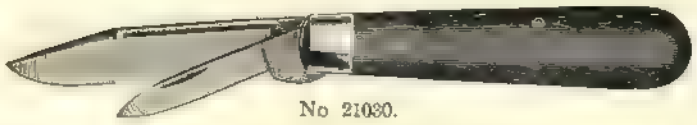
No. 24205.

| | | | | |
|---|---|---|---|---|
| **No. 21021**—Chain. | Two blades, glazed. | Cocoa handle. | Iron lined Polished steel bolster..... | Per dozen, $4 00 |
| **No. 23021**— " | " " " | White bone handle. | Iron lined. Polished steel bolster..... | " 4.00 |
| **No. 24021**— " | " " " | Stag " | " " " " " | " 4 00 |
| **No. 21205**— " | Easy opener. Two blades, glazed. | Cocoa handle. | Iron lined. Polished steel bolster..... | " 4 00 |
| **No. 23205**— " | " " " " " | White bone handle. | Iron lined. Polished steel bolster..... | " 4.00 |
| **No. 24205**— " | " " " " " | Stag " | " " " " " | " 4.00 |

One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

## PALO ALTO.

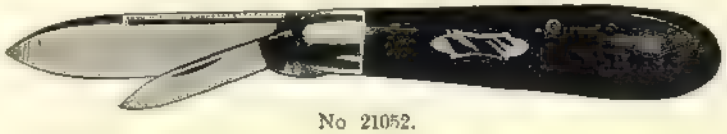


No 21030.

| | | | | | |
|---|---|---|---|---|---|
| No. 21031 | Two blades, Spear, glazed. | Cocoa handle. | Iron lined. | Polished steel bolster. | Per dozen, $2 50 |
| No. 23031— | " " " " | White bone handle. | Iron lined | Polished steel bolster | " 2 50 |
| No. 24031— | " " " " | Stag | " " | " " " | " 2 50 |
| No. 21030— | " " Clip, " | Cocoa | " " | " " " | " 2 50 |
| No. 23030— | " " " " | White bone | " " | " " " | " 2 50 |
| No. 24030— | " " " " | Stag | " " | " " " | " 2 50 |

No. 24050

| | | | | | |
|---|---|---|---|---|---|
| No. 21050— | Two blades, Spear, glazed. | Cocoa handle. | Iron lined. | Polished steel bolster | Per dozen, $3 00 |
| No. 23050— | " " " " | White bone handle. | Iron lined. | Polished steel bolster | " 3 00 |
| No. 24050— | " " " " | Stag | " " | " " " | " 3 00 |
| No. 21051— | " " Clip, " | Cocoa | " " | " " " | " 3 00 |
| No. 23051— | " " " " | White bone | " " | " " " | " 3.00 |
| No. 24051— | " " " " | Stag | " " | " " " | " 3.00 |



No 21052.

| | | | | | |
|---|---|---|---|---|---|
| No. 21052— | Two blades, Spear, glazed. | Cocoa handle. | Iron lined | Polished steel bolster | Per dozen, $3 50 |
| No. 23052— | " " " " | White bone handle. | Iron lined. | Polished steel bolster | " 3 50 |
| No. 24052— | " " " " | Stag | " " | " " " | " 3 50 |
| No. 21053— | " " Clip, " | Cocoa | " " | " " " | " 3.50 |
| No. 23053— | " " " " | White bone | " " | " " " | " 3.50 |
| No. 24053— | " " " " | Stag | " " | " " " | " 3.50 |

No 23057.

| | | | | | |
|---|---|---|---|---|---|
| No. 21056— | Two blades, Spear, glazed. | Cocoa handle. | Iron lined. | Polished steel bolster | Per dozen, $4 00 |
| No. 23056 | " " " " | White bone handle. | Iron lined. | Polished steel bolster | " 4 00 |
| No. 24056— | " " " " | Stag | " " | " " " | " 4.00 |
| No. 21057 | " " Clip, " | Cocoa | " " | " " " | " 4 00 |
| No. 23057— | " " " " | White bone | " " | " " " | " 4 00 |
| No. 24057— | " " " " | Stag | " " | " " " | " 4.00 |

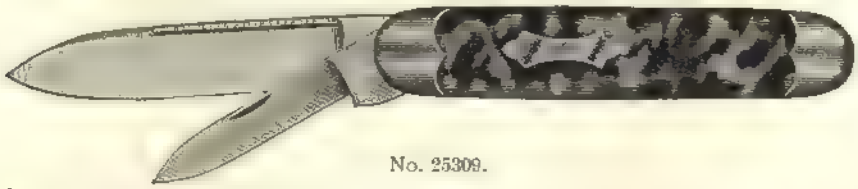
No. 24054.

| | | | | | |
|---|---|---|---|---|---|
| No. 23054— | Two blades, Spear, glazed. | White bone handle. | Iron lined. | Polished steel bolster | Per dozen, $4 00 |
| No. 24054— | " " " " | Stag | " " | " " " | " 4 00 |
| No. 23055— | " " Clip, " | White bone | " " | " " " | " 4 00 |
| No. 24055— | " " " " | Stag | " " | " " " | " 4.00 |

One-half dozen in box. Cuts, three-quarter size.

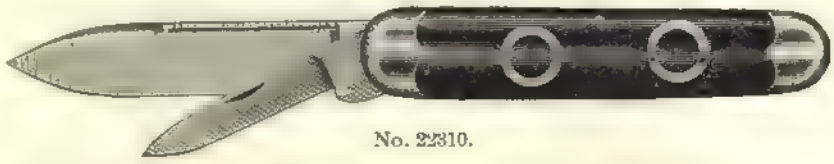
# POCKET KNIVES.

## PALO ALTO.



No. 25309.

**No. 22309**—Two blades, glazed. Ebony handle. Iron lined. Polished steel cap and bolster ..... Per dozen, $4.50
**No. 25809**— " " " Imitation shell handle. Iron lined. Polished steel cap and bolster ..... " 4 50

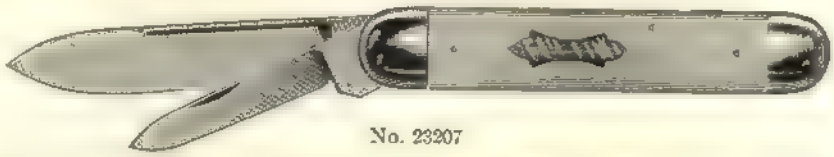


No. 22310.

**No. 22310**—Two blades, glazed. Ebony handle. Iron lined. Polished steel cap and bolster..... ..... Per dozen, $4 50

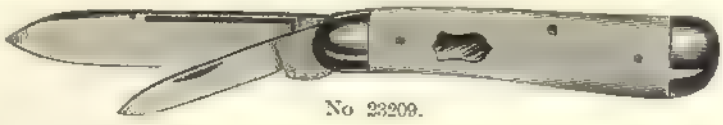
No. 24206.

**No. 21206**—Two blades, glazed. Cocoa handle. Iron lined. Polished steel cap and bolster..... Per dozen, $4.50
**No. 24206**— " " " Stag " " " " " " " " " " " " 4 50



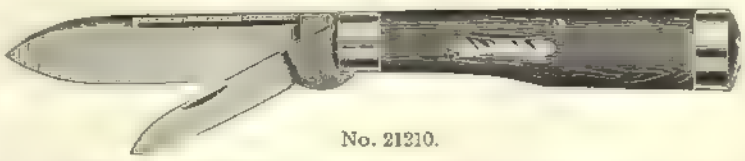
No. 23207

**No. 21207**—Two blades, glazed. Cocoa handle Brass lined German silver cap and bolster..... Per dozen, $6 00
**No. 23207**— " " " White bone handle. Brass lined German silver cap and bolster. " 6.00
**No. 24207**— " " " Stag " " " " " " " " " " " " 6 00



No 23209.

**No. 21209**—Two blades, glazed. Cocoa handle. Brass lined. German silver cap and bolster ..... Per dozen, $6 00
**No. 23209**— " " " White bone handle. Brass lined. German silver cap and bolster " 6 00
**No. 24209**— " " " Stag " " " " " " " " " " " " 6 00
**No. 21211**— Sheep foot, glazed. Cocoa handle. Brass lined German silver cap and bolster ..... " 6 00



No. 21210.

**No. 21210**—Two blades, glazed Cocoa handle Brass lined. German silver cap and bolster..... Per dozen, $6 00
**No. 23210**— " " " White bone handle. Brass lined. German silver cap and bolster " 6 00
**No. 24210**— " " " Stag " " " " " " " " " " " " 6 00

One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

## PALO ALTO.

No. 24208.

**No. 23208**—Two blades, glazed. White bone handle. Brass lined German silver cap and bolster ... Per dozen, $6 00
**No. 24208**— " " " Stag " " " " " " " " " " 6 00

No. 21212.

**No. 21212**—Two blades, glazed. Cocoa handle. Brass lined. German silver cap and bolster.... Per dozen, $8 00
**No. 23212**— " " " White bone handle. Brass lined. German silver cap and bolster. " 8 00
**No. 24212**— " " " Stag " " " " " " " " " " 8 00

No 24213.

**No. 23213**—Two blades, glazed. White bone handle. Brass lined. German silver cap and bolster Per dozen, $8 00
**No. 24213**— " " " Stag " " " " " " " " " " 8 00

No. 23217.

**No. 23217**—Two blades, glazed. White bone handle. Brass lined. German silver cap and bolster ...Per dozen, $8 00
**No. 24217**— " " " Stag " " " " " " " " " " 8 00

No. 24214

**No. 23214**—Two blades, glazed White bone handle. Brass lined. German silver cap and bolster .Per dozen, $8.00
**No. 24214**— " " " Stag " " " " " " " " " " 8 00

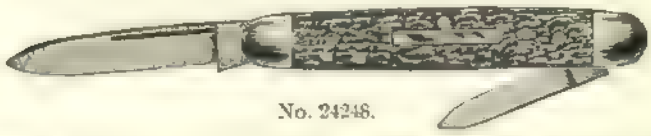
No. 24216.

**No. 23216**—Two blades, glazed White bone handle. Brass lined German silver cap and bolster. Per dozen, $8 00
**No. 24216**— " " " Stag " " " " " " " " " " 8.00

One-half dozen in box. Cuts, three-quarter size.

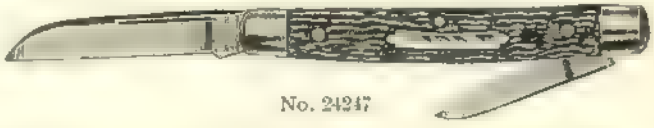
# POCKET KNIVES.

## PALO ALTO.



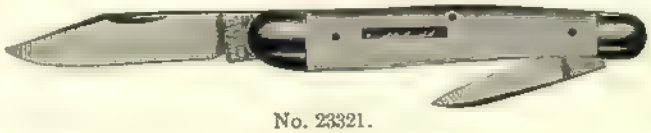
No. 24248.

**No. 23248**—Two blades, crocus finished White bone handle. Brass lined German silver cap and bolster.....Per dozen, $3 50
**No. 24248**— " " " Stag " " " " " " 3.50



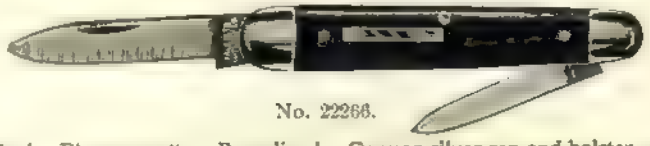
No. 24247

**No. 24247**—Two blades, crocus finished Stag handle. Brass lined. German silver cap and bolster.....Per dozen, $3.50



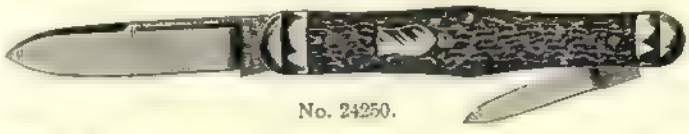
No. 23321.

**No. 23321**—Two blades, crocus finished White bone handle Brass lined. German silver cap and bolster.....Per dozen, $4.00
**No. 24821**— " " " " Stag " " " " " " " " " " 4 00



No. 22266.

**No. 22266**—Two blades, crocus finished. Ebony handle. Brass lined. German silver cap and bolster.....Per dozen, $4 00
**No. 23266**— " " " " White bone handle. Brass lined. German silver cap and bolster. 4 00
**No. 24266**— " " " " Stag " " " " " " " " " " 4 00



No. 24250.

**No. 23250**—Two blades, crocus finished. White bone handle. Brass lined. German silver cap and bolster.....Per dozen, $4.00
**No. 24250**— " " " " Stag " " " " " " " " " " 4 00

No. 24251

**No. 23251**—Two blades, crocus finished. White bone handle. Brass lined. German silver cap and bolster.....Per dozen, $4.00
**No. 24251**— " " " " Stag " " " " " " " " " " 4.00

One-half dozen in box. Cuts, three-quarter size.

PACIFIC HARDWARE & STEEL COMPANY

# POCKET KNIVES.

## PALO ALTO.

No. 25270

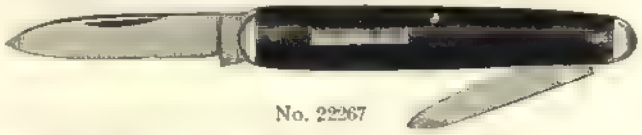
| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **No. 28270**— | Two blades, crocus finished | White bone handle. | Brass lined | German silver tips | | | | Per dozen, | $4 00 |
| **No. 24270**— | " " " " | Stag | " | " | " | " | " | " | 4 00 |
| **No. 25270**— | " " " " | Shell | " | " | " | " | " | " | 4 00 |

No. 34602.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **No. 33602**— | Two blades, crocus finished | White bone handle. | Brass lined. | German silver tips | | | | ...Per dozen, | $4 00 |
| **No. 34602**— | " " " " | Stag | " | " | " | " | " | " | 4 00 |

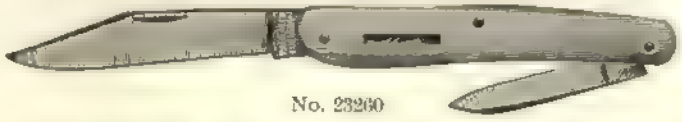
No. 24249

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **No. 23249**— | Two blades, crocus finished. | White bone handle. | Brass lined. | German silver tips | | | | ....Per dozen, | $3 50 |
| **No. 24249**— | " " " " | Stag | " | " | " | " | " | " | 3 50 |



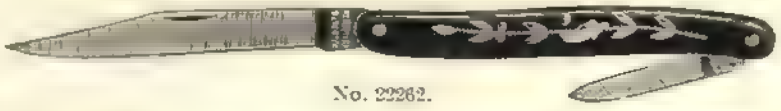
No. 22267

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **No. 22267**— | Two blades, crocus finished | Ebony handle | Brass lined | German silver tips | | | | ...Per dozen, | $4 00 |
| **No. 23267**— | " " " " | White bone handle. | Brass lined | German silver tips | | | | " | 4 00 |
| **No. 24267**— | " " " " | Stag | " | " | " | " | " | " | 4 00 |



No. 23260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **No. 23260**— | Two blades, crocus finished | White bone handle | Iron lined | | | | | ...Per dozen, | $4 00 |
| **No. 24260**— | " " " " | Stag | " | " | " | " | " | " | 4 00 |
| **No. 27260**— | " " " " | Buffalo horn | " | " | " | " | " | " | 4 00 |



No. 22262.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **No. 22262**— | Two blades, crocus finished | Inlaid black bone handle | Brass lined | | | | | ...Per dozen, | $4 00 |
| **No. 24262**— | " " " " | Stag | " | " | " | " | " | " | 4.00 |
| **No. 27262**— | " " " " | Buffalo horn | " | " | " | " | " | " | 4 00 |

No. 24261.

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **No. 23261**— | Two blades, crocus finished. | White bone handle. | Brass lined | | | | | .Per dozen, | $4 00 |
| **No. 24261**— | " " " " | Stag | " | " | " | " | " | " | 4 00 |
| **No. 27261**— | " " " " | Buffalo horn | " | " | " | " | " | " | 4 00 |

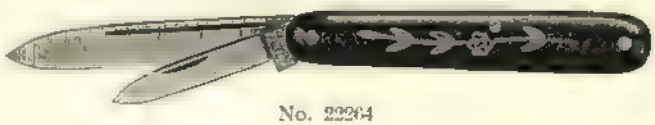
One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

## PALO ALTO.

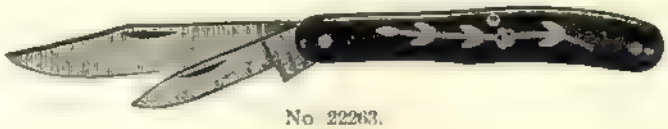
No. 23320

| | | | |
|---|---|---|---|
| **No. 23820**—Two blades, crocus finished. | White bone handle. | Brass lined | Per dozen, $4 00 |
| **No. 24320**— " " " " | Stag " | " " | " 4.00 |
| **No. 27320**— " " " " | Buffalo horn " | " " | " 4.00 |



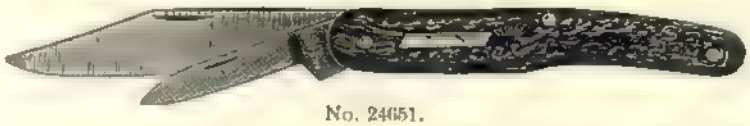
No. 22264

| | | | |
|---|---|---|---|
| **No. 22264**—Two blades, crocus finished | Inlaid black bone handle. | Iron lined | Per dozen, $4 00 |
| **No. 24264**— " " " " | Stag " | " " | " 4 00 |
| **No. 27264**— " " " " | Buffalo horn " | " " | " 4 00 |
| **No. 22265**—Same as No. 22264 one-fourth larger | | | 4 00 |
| **No. 24265**— " " " 24264, | " " | | " 4 00 |
| **No. 27265**— " " " 27264, | " " | | " 4 00 |



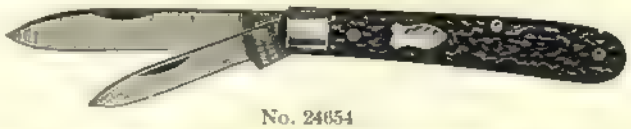
No. 22263.

| | | | |
|---|---|---|---|
| **No. 22263**—Two blades, crocus finished. | Inlaid black bone handle. | Iron lined | Per dozen, $4.00 |
| **No. 24263**— " " " " | Stag " | " " | " 4.00 |
| **No. 27263**— " " " " | Buffalo horn " | " " | " 4.00 |



No. 24651.

| | | | |
|---|---|---|---|
| **No. 23651**—Two blades, crocus finished. | White bone handle. | Iron lined | Per dozen, $4.00 |
| **No. 24651**— " " " " | Stag " | " " | " 4 00 |
| **No. 27651**— " " " " | Buffalo horn " | " " | " 4 00 |



No. 24654

| | | | |
|---|---|---|---|
| **No. 24654**—Two blades, crocus finished. | Stag handle. | Iron lined. Polished steel bolster | Per dozen, $4 50 |
| **No. 27654**— " " " " | Buffalo horn handle. | Iron lined. Polished steel bolster | " 4.50 |

No. 21054.

**No. 21054**—Two blades, glazed. Cocoa handle. Brass lined. German silver bolster Per dozen, $4 00

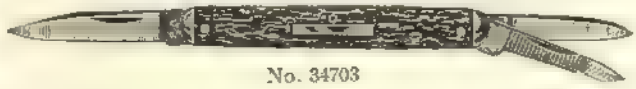
One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

## PALO ALTO.

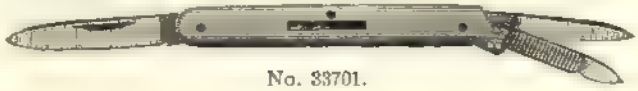
No. 37702.

**No. 33702**—Three blades, crocus finished. White bone handle. Brass lined. German silver cap and bolster.. .. .Per dozen, $8 50
**No. 34702**— " " " " Stag " " " " " " " " " " " " 8 50
**No. 37702**— " " " " Buffalo horn " " " " " " " " " " " " 8 50



No. 34703

**No. 33703**—Three blades, crocus finished. White bone handle Brass lined. German silver tips.. .. .. .. Per dozen, $8 00
**No. 34703**— " " " " Stag " " " " " " " " " " " " 8 00
**No. 37703**— " " " " Buffalo horn " " " " " " " " " " " " 8 00

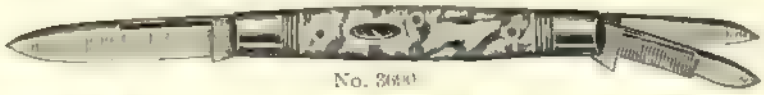


No. 33701.

**No. 33701**—Three blades, crocus finished. White bone handle. Brass lined.. .. .. .

# POCKET KNIVES.

## PALO ALTO.



No. 3690

**No. 36901**—Three blades, crocus finished. Pearl handle. Brass lined. German silver cap and bolster..... Per dozen, $8 00

No. 36903

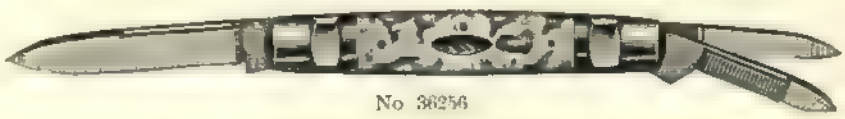
**No. 36903**—Three blades, crocus finished. Pearl handle. Brass lined. German silver cap and bolster..... Per dozen, $8 00

No. 36253.

**No. 36253**—Three blades, crocus finished. Pearl handle. Brass lined. German silver cap and bolster..... Per dozen $8 50

No 36254

**No. 36254**—Three blades, crocus finished. Pearl handle. Brass lined. German silver cap and bolster..... Per dozen $8.50

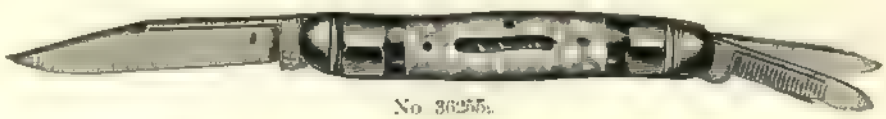


No 36256

**No. 36256**—Three blades, crocus finished. Pearl handle. Brass lined. German silver cap and bolster..... Per dozen, $8.50

No 36257.

**No. 36257**—Three blades, crocus finished. Pearl handle. Brass lined. German silver cap and bolster..... Per dozen, $8 50



No 36255.

**No. 36255**—Three blades, crocus finished. Pearl handle. Brass lined. German silver cap and bolster..... Per dozen, $8.50

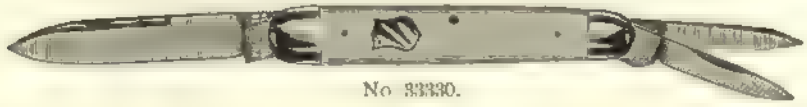
No 37204.

**No. 34204**—Three blades, crocus finished. Stag handle. Brass lined. German silver cap and bolster..... Per dozen, $8 50
**No. 37204**— " " " " Buffalo horn handle. Brass lined. German silver cap and bolster..... " 8 50

One-half dozen in box. Cuts, three-quarter size.

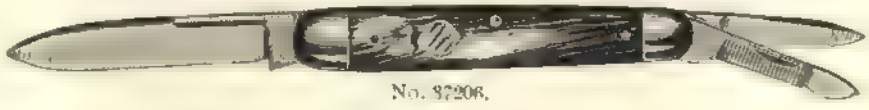
# POCKET KNIVES

## PALO ALTO.



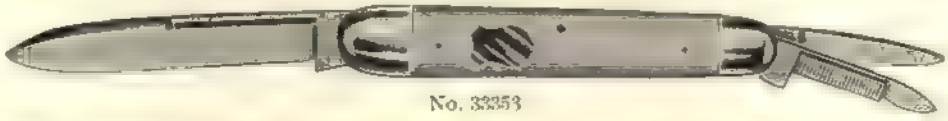
No. 33330.

**No. 33330**—Three blades, crocus finished. White bone handle. Brass lined. German silver cap and bolster ..... Per dozen, $8 00
**No. 34330**— " " " " Stag " " " " " " " " " " " 8 00
**No. 37330**— " " " " Buffalo horn " " " " " " " " " " " 8 00



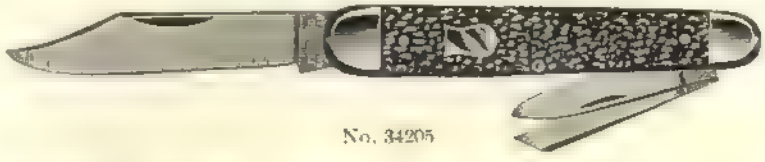
No. 37206.

**No. 33206**—Three blades, crocus finished. White bone handle. Brass lined. German silver cap and bolster Per dozen, $8 50
**No. 34206**— " " " " Stag " " " " " " " " " " " 8 50
**No. 37206**— " " " " Buffalo horn " " " " " " " " " " " 8 50



No. 33353

**No. 33353**—Three blades, crocus finished White bone handle. Brass lined German silver cap and bolster Per dozen, $8 50
**No. 34353**— " " " " Stag " " " " " " " " " " " 8 50
**No. 37353**— " " " " Buffalo horn " " " " " " " " " " " 8 50



No. 34205

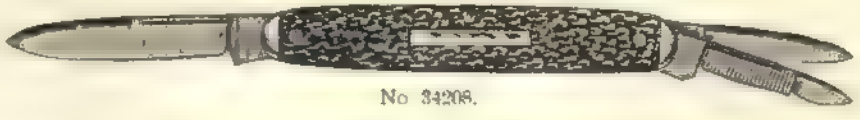
**No. 34205**—Three blades, crocus finished. Stag handle Brass lined German silver cap and bolster. Per dozen, $8 50
**No. 37205**— " " " " Buffalo horn handle. Brass lined. German silver cap and bolster " 8 50

No. 30001.

**No. 30001**—Three blades, crocus finished. Imitation stag, iron handle Iron lined Polished steel cap and bolster. Per dozen, $4 00

No. 34207.

**No. 34207**—Three blades, crocus finished. Stag handle. Brass lined. German silver tips Per dozen, $8 50



No. 34208.

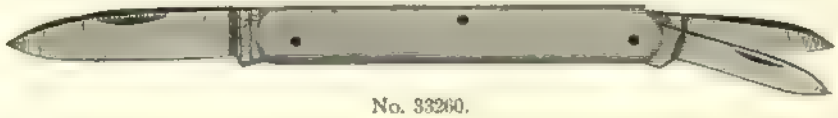
**No. 33208**—Three blades, crocus finished. White bone handle. Brass lined. German silver tips ...Per dozen, $8 50
**No. 34208**— " " " " Stag " " " " " " " " " " " 8 50

One-half dozen in box. Cuts, three-quarter size.

PACIFIC HARDWARE & STEEL COMPANY

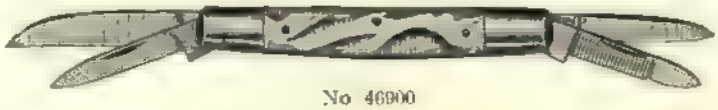
# POCKET KNIVES.

## PALO ALTO.



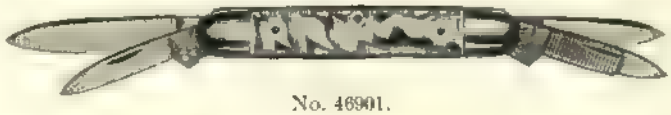
No. 33260.

**No. 33260**—Three blades, crocus finished. White bone handle. Brass lined . . . . . Per dozen, $8 00
**No. 34260**— " " " " Stag " " " . . . . . 8 00
**No. 37260**— " " " " Buffalo horn " " " . . . . . " 8 00



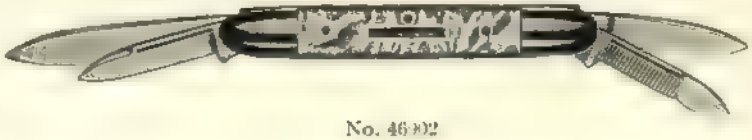
No 46900

**No. 46900**—Four blades, crocus finished. Pearl handle. Brass lined. German silver cap and bolster . . . . . Per dozen, $8 00



No. 46901.

**No. 46901**—Four blades, crocus finished. Pearl handle Brass lined. German silver cap and bolster. . . . . Per dozen, $8 00

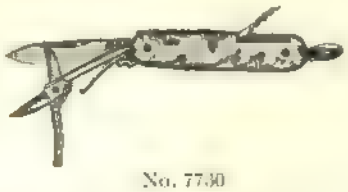


No. 46902

**No. 46902**—Four blades, crocus finisaed Pearl handle Brass lined German silver cap and bolster . . . . . Per dozen, $8.00

No. 46860

**No. 46860**—Four blades, crocus finished. Pearl handle. Brass lined. German silver cap and bolster. . . . . Per dozen, $8 00



No. 7730

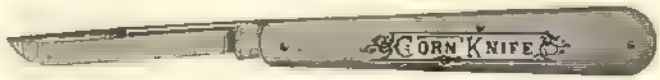
No 7731

**No. 7730**—Watch chain fob knife. One blade, Scissors and Corkscrew, full crocus polished German silver lined, engraved edges . . . . . Per dozen, $24 00
**No. 7731**—Watch chain fob knife. Two blades and scissors, full crocus polished. German silver lined, engraved edges . " 24 00

One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

## PALO ALTO.




No. 146.

**No. 146**—Corn. One blade, full crocus polished. Ivory handle. Brass lined.....Per dozen, $8 00

No 84250.

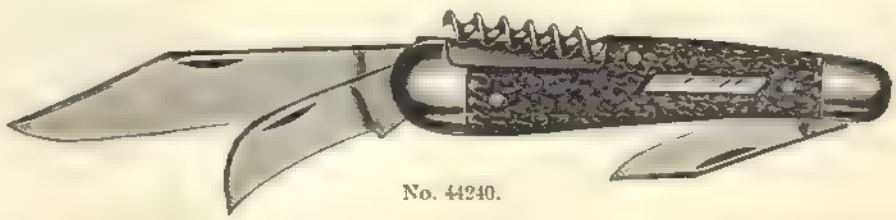
**No. 84250**—Two blades and Corkscrew, crocus finished. Stag handle. Brass lined. German silver bolster. ...Per dozen, $11.00
**No. 87250**— " " " " " " Buffalo horn handle. Brass lined. German silver bolster.. ... " 11.00

No. 47241.

**No. 47241**—Three blades and Corkscrew, full crocus polished. Buffalo horn handle Brass lined ..... .. . .... . . Per dozen, $11 00

No. 47242.

**No. 47242**—Three blades and Corkscrew, full crocus polished Buffalo horn handle. Brass lined .. .. . .. Per dozen, $15.00



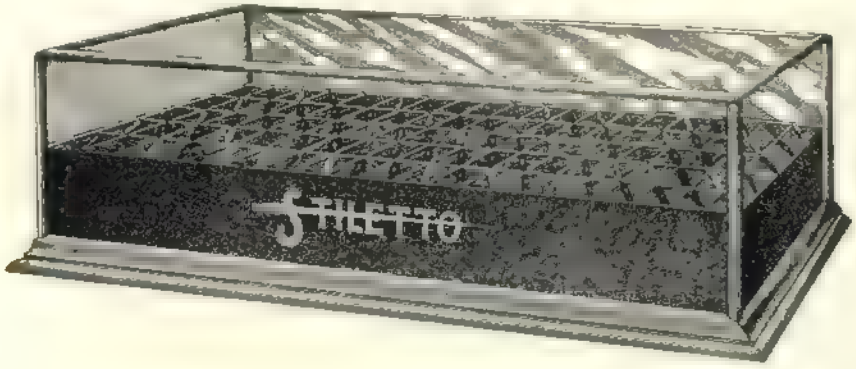
No. 44240.

**No. 44240**—Three blades and Corkscrew, full crocus polished. Stag handle. Brass lined. German silver cap and bolster..Per dozen $15 00
One-half dozen in box. Cuts, three-quarter size.

# CUTLERY DEPARTMENT.

Our stock consists of a full and complete assortment of Pocket, Table, Butcher and Kitchen Knives, Carvers, Shears, Scissors Manicure Goods, Razors, Razor Strops, Hones, Plated Ware, etc.

## POCKET KNIVES.




## RAZORS, POCKET KNIVES, SCISSORS AND SHEARS.

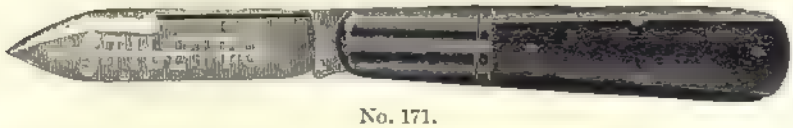
We carry in stock upwards of 3000 different and distinct patterns of Pocket Knives. The following illustrations show a few of our leading patterns and brands.

We especially recommend our —STILETTO— brand, which is of the best quality and finish. Made in the United States by the most experienced and skilled workmen and **Fully Guaranteed** in material and workmanship.

# POCKET KNIVES.

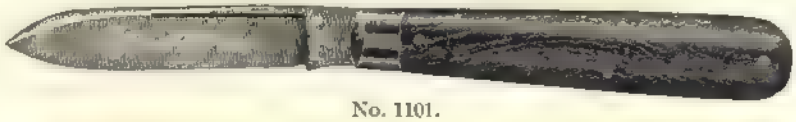
## STILETTO

Fully Warranted.



No. 171.

**No. 171**—Barlow pattern. One blade, glazed. Stained bone handle Iron lined. Polished steel bolster .....Per dozen, $3.50

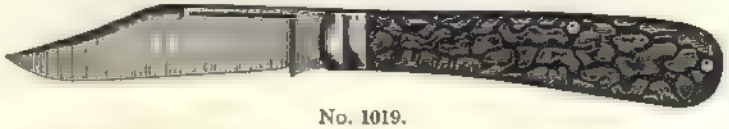


No. 1101.

**No. 1101**—One blade, glazed. Cocoa handle. Iron lined. Polished steel bolster.....Per dozen, $3 50

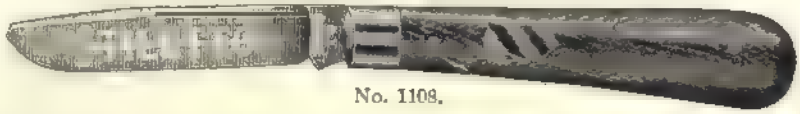
No. 1018.

**No. 1018**—One blade, glazed. Fancy iron handle. Iron lined. Polished steel bolster.....Per dozen, $3.50



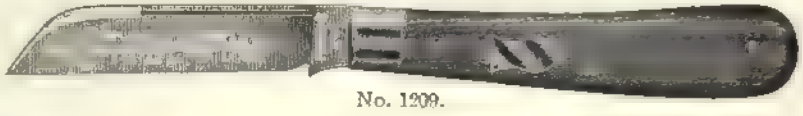
No. 1019.

**No. 1019**—One blade, glazed. Fancy iron handle. Iron lined. Polished steel bolster .. Per dozen, $3 50



No. 1108.

**No. 1008**—One blade, glazed. Fancy iron handle. Iron lined. Polished steel bolster.....Per dozen, $3.50
**No. 1108**— " " " Cocoa " " " " " " " " 4.00



No. 1209.

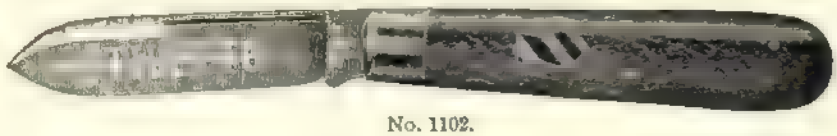
**No. 1109**—One blade, glazed. Cocoa handle. Iron lined. Polished steel bolster .. Per dozen, $4 00
**No. 1209**— " " " Ebony " " " " " " " " 4 00

One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

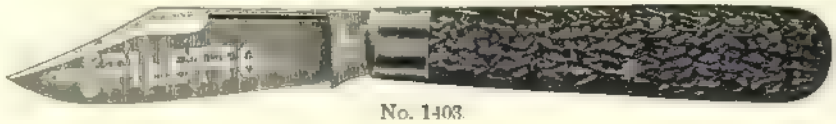
## STILETTO

Fully Warranted.



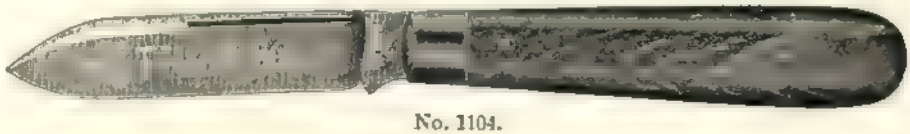
No. 1102.

**No. 1102**—One blade, glazed. Cocoa handle. Iron lined. Polished steel bolster .... ..... ..... .... . .. .. .. .Per dozen, $4 00
**No. 1402**— " " " Stag " " " " " " " ..... " 4 00



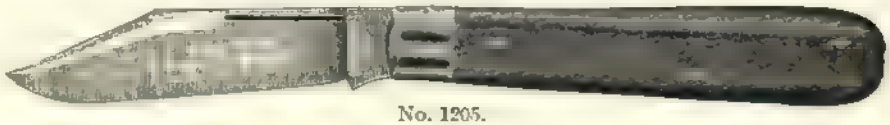
No. 1403.

**No. 1103**—One blade, glazed. Cocoa handle. Iron lined. Polished steel bolster.. ..... .... ..... .... ... .. .. .Per dozen, $4 00
**No. 1403**— " " " Stag " " " " " " " .. ..... . .. . ..... ... .... .... . " 4.00



No. 1104.

**No. 1104**—One blade, glazed. Cocoa handle. Iron lined. Polished steel bolster.. ..... ..... . ..... ..... .... . ....Per dozen, $4 50

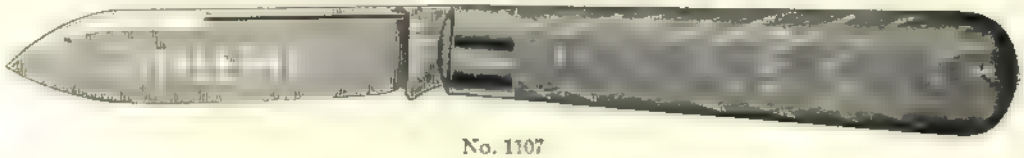


No. 1205.

**No. 1205**—One blade, glazed. Ebony handle. Iron lined. Polished steel bolster..... ..... .. . ..... . .. .. ..Per dozen, $4.50

No. 1106.

**No. 1106**—One blade, glazed. Cocoa handle. Iron lined. Polished steel bolster..... .... . ..... ... . .. .. .Per dozen, $6.50



No. 1107

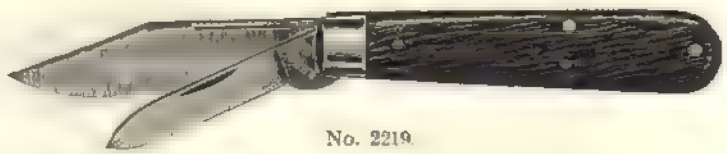
**No. 1107**—One blade, Spear, glazed. Cocoa handle. Iron lined. Polished steel bolster .. .. . . ... . . ... . Per dozen, $6 50
**No. 1207**— " " Chp, " Ebony " " " " " " " . . . .. . . . " 6 50

One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

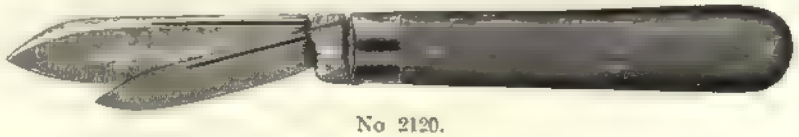
## STILETTO

Fully Warranted.



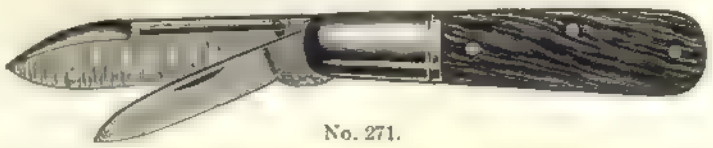
No. 2219.

**No. 2119**—Two blades, glazed. Cocoa handle. Iron lined. Polished steel bolster . . . . . Per dozen, $4.00
**No. 2219**— " " " Ebony " " " " " 4.00



No 2120.

**No. 2120**—Two blades, glazed. Cocoa handle. Iron lined Polished steel bolster . . . . . Per dozen, $4 00
**No. 2220**— " " " Ebony " " " " " " " " " " 4.00
**No. 2420**— " " " Stag " " " " " " " " " " 4 50



No. 271.

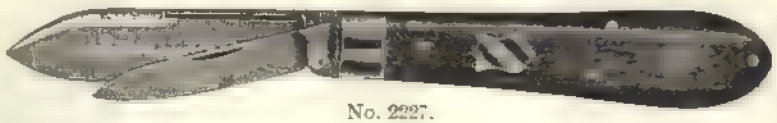
**No. 271**—Barlow pattern. Two blades, glazed. Stained bone handle. Iron lined. Polished steel bolster . . . . . Per dozen, $6 00

No. 2018.

**No. 2018**—Two blades, glazed Fancy iron handle. Iron lined. Polished steel bolster . . . . . Per dozen, $6 00

No 2019

**No. 2019**—Two blades, glazed. Fancy iron handle Iron lined. Polished steel bolster . . . . . Per dozen, $6 00



No. 2227.

**No. 2127**—Two blades, glazed. Cocoa handle. Iron lined. Polished steel bolster . . . . . Per dozen, $6 50
**No. 2227**— " " " Ebony " " " " " " " " " " 6 50

One-half dozen in box. Cuts, three-quarter size

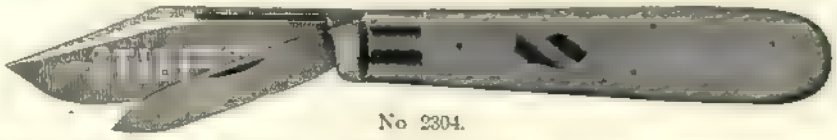
# POCKET KNIVES.

## STILETTO

Fully Warranted.

No. 2403.

**No. 2103**—Two blades, glazed. Cocoa handle. Iron lined. Polished steel bolster.....Per dozen, $7.00
**No. 2303**— " " " White bone handle. Iron lined. Polished steel bolster..... " 8.00
**No. 2403**— " " " Stag " " " " " " " " 7.50

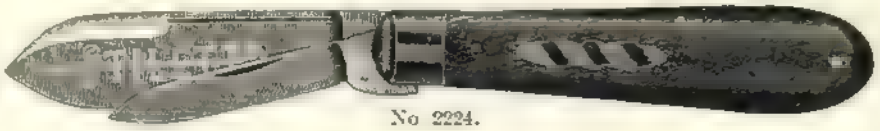


No. 2304.

**No. 2104**—Two blades, glazed. Cocoa handle. Iron lined. Polished steel bolster.....Per dozen, $7.00
**No. 2304**— " " " White bone handle. Iron lined. Polished steel bolster..... " 8.00
**No. 2404**— " " Stag " " " " " " " " 7.50

No. 2105.

**No. 2105**—Two blades, glazed. Cocoa handle. Iron lined. Polished steel bolster.....Per dozen, $7.00

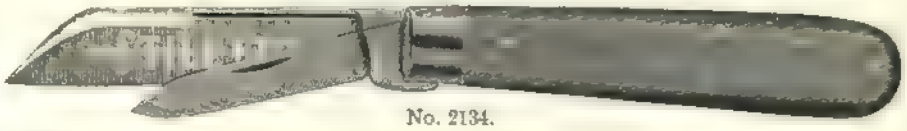


No. 2224.

**No. 2124**—Two blades, glazed. Cocoa handle. Iron lined. Polished steel bolster.....Per dozen, $7.50
**No. 2224**— " " " Ebony " " " " " " " " 7.50

No. 2421.

**No. 2121**—Two blades, glazed. Cocoa handle. Iron lined. Polished steel bolster.....Per dozen, $7.00
**No. 2321**— " " " White bone handle. Iron lined. Polished steel bolster..... " 8.00
**No. 2421**— " " " Stag " " " " " " " " 8.00



No. 2134.

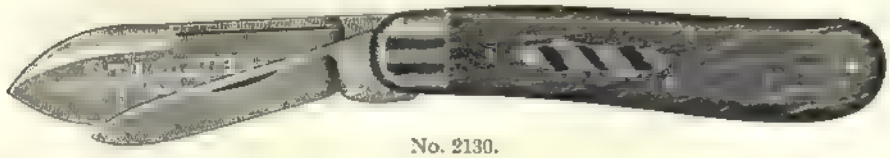
**No. 2134**—Two blades, glazed. Cocoa handle. Iron lined. Polished steel bolster.....Per dozen, $7.50

One-half dozen in box. Cuts, three-quarter size

# POCKET KNIVES.

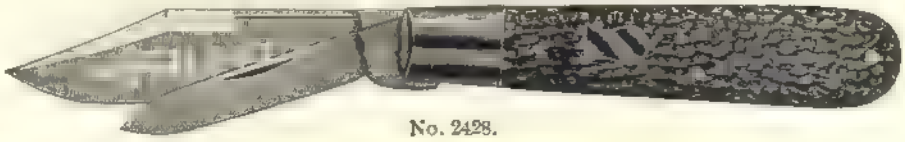
## STILETTO

Fully Warranted.



No. 2130.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **No. 2130**—Two blades, glazed. | Cocoa handle. | Iron lined. | Polished steel bolster. | . . . . . | Per dozen, | $8 00 |
| **No. 2230**— " " " | Ebony " | " " " | " " " | . . . . . | " | 8 00 |

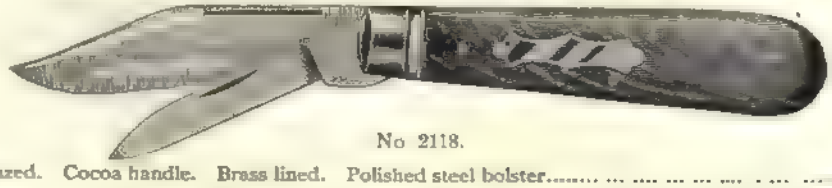


No. 2428.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **No. 2128**—Two blades, glazed | Cocoa handle. | Iron lined | Polished steel bolster. | . . . . . | Per dozen, | $8 00 |
| **No. 2228**— " " " | Ebony " | " " " | " " " | . . . . . | " | 8.00 |
| **No. 2428**— " " " | Stag " | " " " | " " " | . . . . . | " | 8.50 |

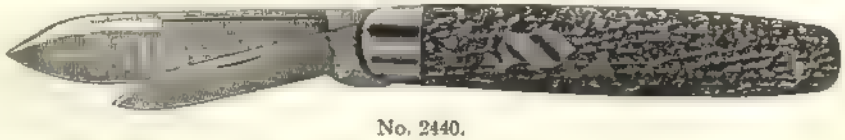
No. 2122.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **No. 2123**—Two blades, glazed. | Cocoa handle. | Brass lined. | Polished steel bolster | . . . . . | Per dozen, | $8 00 |
| **No. 2422**— " " " | Stag " | " " " | " " " | . . . . . | " | 8 50 |



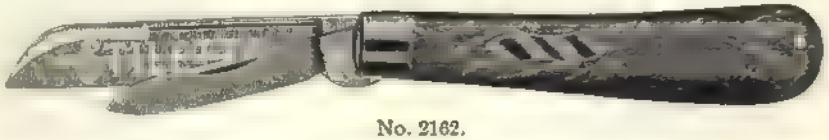
No 2118.

**No. 2118**—Two blades, glazed. Cocoa handle. Brass lined. Polished steel bolster. . . . . Per dozen, $8.50



No. 2440.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **No. 2140**—Two blades, half crocus polished. | Cocoa handle. | Brass lined. | German silver bolster. | . . . . . | Per dozen, | $8 00 |
| **No. 2240**— " " " " " | Ebony " | " " " | " " " | . . . . . | " | 8 00 |
| **No. 2440**— " " " " " | Stag " | " " " | " " " | . . . . . | " | 9 00 |



No. 2162.

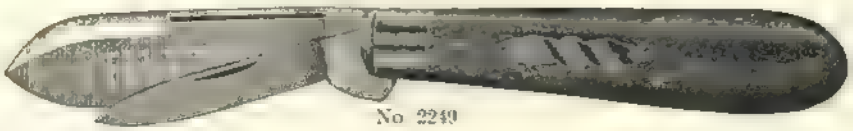
| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **No. 2162**—Two blades, half crocus polished | Cocoa handle. | Brass lined. | German silver bolster. | . . . . . | Per dozen, | $ 9 00 |
| **No. 2262**— " " " " " | Ebony " | " " " | " " " | . . . . . | " | 9 00 |
| **No. 2462**— " " " " " | Stag " | " " " | " " " | . . . . . | " | 10 00 |

One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

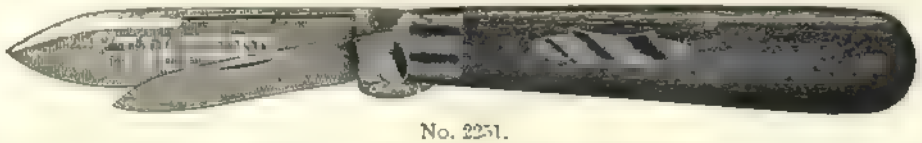
## STILETTO

Fully Warranted.



No. 2249

| | | | |
|---|---|---|---|
| No. 2149— | Two blades, half crocus polished. | Cocoa handle. Brass lined. German silver bolster | Per dozen, $ 9.00 |
| No. 2249— | " " " " " | Ebony " " " " " " | " 9.00 |
| No. 2449— | " " " " " | Stag " " " " " " | " 10.00 |



No. 2251.

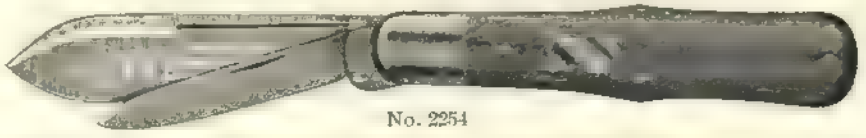
| | | | |
|---|---|---|---|
| No. 2151— | Two blades, half crocus polished. | Cocoa handle. Brass lined. German silver bolster | Per dozen, $ 9.00 |
| No. 2251— | " " " " " | Ebony " " " " " " | " 9.00 |
| No. 2351— | " " " " " | White bone handle. Brass lined. German silver bolster | " 10 00 |
| No. 2451— | " " " " " | Stag " " " " " " | " 10.00 |

No. 2450.

| | | | |
|---|---|---|---|
| No. 2150— | Two blades, half crocus polished. | Cocoa handle. Brass lined. German silver bolster | Per dozen, $ 9 00 |
| No. 2250— | " " " " " | Ebony " " " " " " | " 9 00 |
| No. 2450— | " " | Stag " " " " " " | " 10.00 |

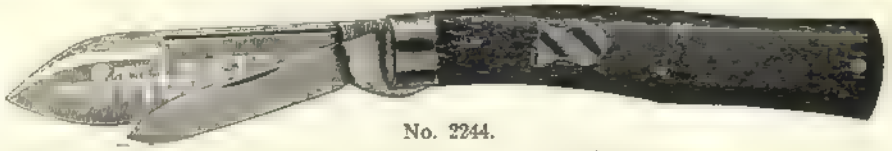
No. 2452.

| | | | |
|---|---|---|---|
| No. 2152— | Two blades, half crocus polished. | Cocoa handle. Brass lined German silver bolster | Per dozen, $11 00 |
| No. 2252— | " " " " " | Ebony " " " " " " | " 11 00 |
| No. 2352— | " " " " " | White bone handle. Brass lined. German silver bolster | " 12 00 |
| No. 2452— | " " " " " | Stag " " " " " " | " 12.00 |



No. 2254

| | | | |
|---|---|---|---|
| No. 2154— | Two blades, half crocus polished. | Cocoa handle. Brass lined. German silver bolster | Per dozen, $ 9.50 |
| No. 2254— | " " " " " | Ebony " " " " " " | " 1 50 |
| No. 2454— | " " " " " | Stag " " " " " " | " 10 50 |



No. 2244.

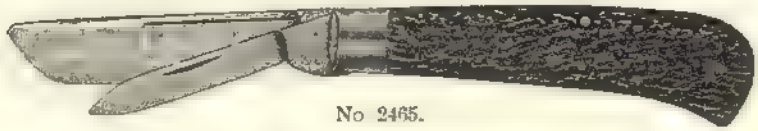
| | | | |
|---|---|---|---|
| No. 2144— | Two blades, half crocus polished. | Cocoa handle. Brass lined. German silver bolster | Per dozen, $ 9.50 |
| No. 2244— | " " " " " | Ebony " " " " " " | " 9.50 |
| No. 2444— | " " " " " | Stag " " " " " " | " 10.00 |

One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

## STILETTO

Fully Warranted.

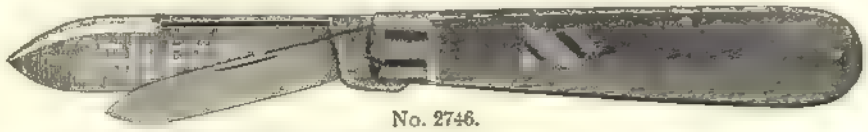


No. 2465.

**No. 2465**—Two blades, half crocus polished Stag handle. Brass lined German silver bolster.....Per dozen, $9 00

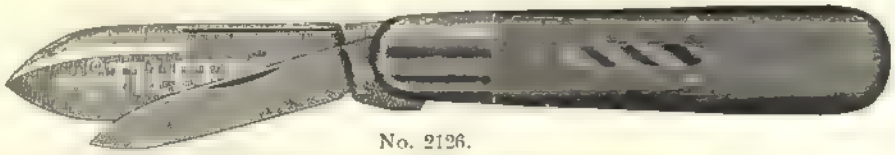
No. 2445.

**No. 2145**—Two blades, half crocus polished. Cocoa handle Brass lined German silver bolster. . . . . Per dozen, $10.00
**No. 2245**— " " " " " Ebony " " " " " " " " " " 10 00
**No. 2445**— " " " " " Stag " " " " " " " " " " 11 00



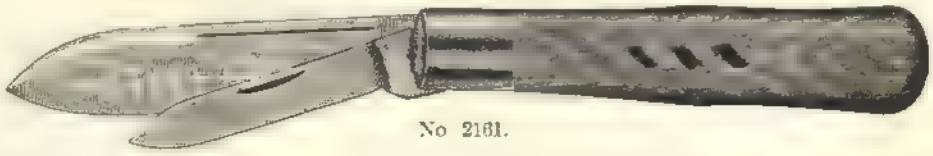
No. 2746.

**No. 2246**—Two blades, half crocus polished. Ebony handle. Brass lined. German silver bolster. . . . . Per dozen. $10.00
**No. 2346**— " " " " " White bone handle. Brass lined. German silver bolster. . . . . " 11.00



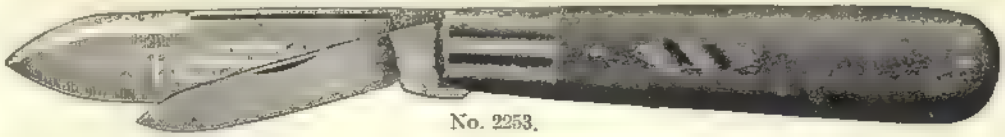
No. 2126.

**No. 2126**—Two blades, extra heavy, glazed. Cocoa handle. Iron lined. Polished steel bolster.....Per dozen, $11.00



No 2161.

**No. 2161**—Two blades, half crocus polished. Cocoa handle. Brass lined. German silver bolster. . . . Per dozen, $11.00



No. 2253.

**No. 2253**—Two blades, half crocus polished. Ebony handle. Brass lined. German silver bolster. . . . . Per dozen, $12.00
One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

## STILETTO

Fully Warranted.

No. 2106.

**No. 2106**—Two blades, glazed. Cocoa handle. Iron lined. Polished steel cap and bolster. With chain .. . Per dozen, $8.00
**No. 2406**— " " " Stag " " " " " " " " " " " " 9.00

No. 2406.

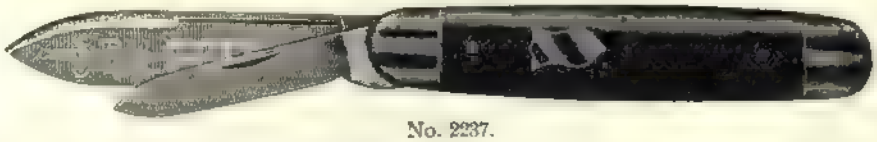
**No. 2106**—Two blades, half crocus polished. Easy opener. Cocoa handle. Iron lined. Polished steel bolster..... .Per dozen, $8.00
**No. 2406**— " " " " " " " Stag " " " " " " " " 8.50

No. 2464.

**No. 2164**—Two blades, half crocus polished Easy opener. Cocoa handle. Brass lined. German silver cap and bolster..Per dozen, $10 00
**No. 2464**— " " " " " " " Stag " " " " " " " " 11 00

No. 2429.

**No. 2129**—Two blades, glazed. Cocoa handle. Iron lined. Polished steel cap and bolster ..... ...Per dozen, $8.00
**No. 2229**— " " " Ebony " " " " " " " " " " " " 8.00
**No. 2429**— " " " Stag " " " " " " " " " " " " 8.50



No. 2237.

**No. 2137**—Two blades, glazed. Cocoa handle. Iron lined Polished steel cap and bolster.. ..... Per dozen, $8 00
**No. 2237**— " " " Ebony " " " " " " " " " " " " 8 00
**No. 2437**— " " " Stag " " " " " " " " " " " " 9 00

One-half dozen in box. Cuts, three-quarter size.

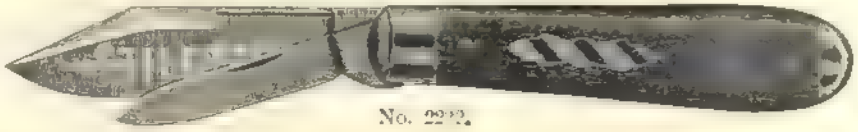
# POCKET KNIVES.

## STILETTO

Fully Warranted.

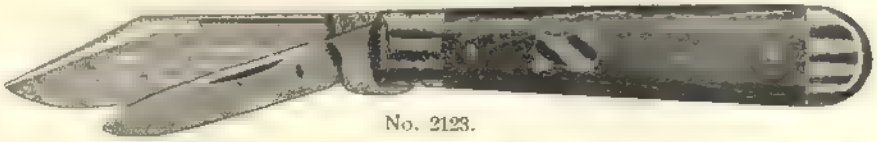
No. 2425.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| No. 2125— | Two blades, glazed | Cocoa handle. | Iron lined. | Polished steel cap and bolster | Per dozen, | $8 00 |
| No. 2425— | " " " | Stag " | " " | " " " " " | " | 8 50 |



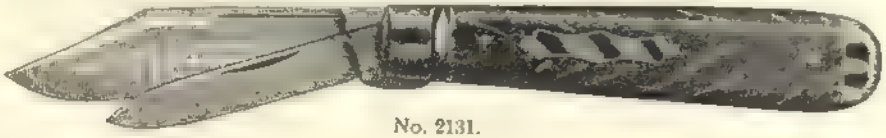
No. 2232.

| | | | | | | |
|---|---|---|---|---|---|---|
| No. 2132— | Two blades, glazed. | Cocoa handle. | Iron lined. | Polished steel cap and bolster | Per dozen, | $8.50 |
| No. 2232— | " " " | Ebony " | " " | " " " " | " | 8.50 |



No. 2123.

| | | | | | | |
|---|---|---|---|---|---|---|
| No. 2123— | Two blades, glazed. | Cocoa handle. | Iron lined. | Polished steel cap and bolster | Per dozen, | $8.00 |
| No. 2423— | " " " | Stag " | " " | " " " " " | " | 8.50 |



No. 2131.

| | | | | | | |
|---|---|---|---|---|---|---|
| No. 2131— | Two blades, glazed. | Cocoa handle. | Brass lined. | Polished steel cap and bolster | Per dozen, | $ 9 00 |
| No. 2231— | " " " | Ebony " | " " | " " " " " | " | 9 00 |
| No. 2431— | " " " | Stag " | " " | " " " " " | " | 10 00 |

No. 2247.

| | | | | | | |
|---|---|---|---|---|---|---|
| No. 2147— | Two blades, half crocus polished. | Cocoa handle. | Brass lined. | German silver cap and bolster. | Per dozen, | $9.00 |
| No. 2247— | " " " " " | Ebony " | " " | " " " " | " | 9.00 |

No. 2456.

| | | | | | | |
|---|---|---|---|---|---|---|
| No. 2156— | Two blades, half crocus polished. | Cocoa handle. | Brass lined. | German silver cap and bolster | Per dozen, | $ 9 00 |
| No. 2256— | " " " " " | Ebony " | " " | " " " " | " | 9 00 |
| No. 2356— | " " " " " | White bone handle. | Brass lined. | German silver cap and bolster | " | 10 00 |
| No. 2456— | " " " " " | Stag " | " " | " " " " | " | 10 00 |

One-half dozen in box. Cuts, three-quarter size.

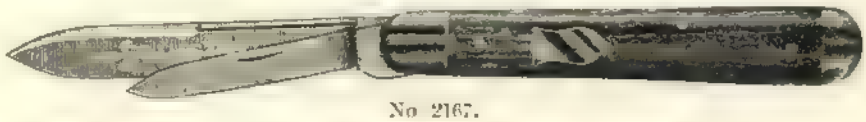
# POCKET KNIVES.

## STILETTO

Fully Warranted.

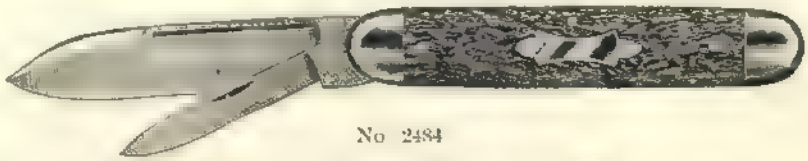
No. 2268.

| | | | | | |
|---|---|---|---|---|---|
| **No. 2268**—Two blades, half crocus polished. | Ebony handle | Brass lined. | German silver cap and bolster | Per dozen, | $ 9.50 |
| **No. 2468**— " " " " " | Stag " | " " | " " " " " | " | 10 00 |



No. 2167.

| | | | | | |
|---|---|---|---|---|---|
| **No. 2167**—Two blades, half crocus polished. | Cocoa handle. | Brass lined. | German silver cap and bolster | Per dozen, | $10 00 |
| **No. 2267**— " " " " " | Ebony " | " " | " " " " " | " | 10 00 |
| **No. 2467**— " " " " " | Stag " | " " | " " " " " | " | 11.00 |

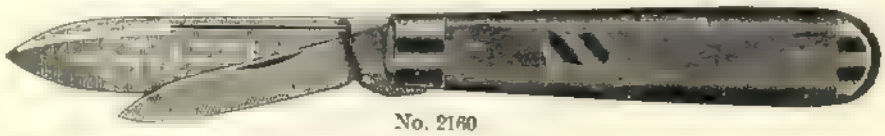


No. 2484

| | | | | | |
|---|---|---|---|---|---|
| **No. 2184**—Two blades, glazed. | Cocoa handle | Brass lined. | German silver cap and bolster | Per dozen, | $8 00 |
| **No. 2484**— " " " | Stag " | " " | " " " " " | " | 9 00 |

No. 2339

| | | | | | |
|---|---|---|---|---|---|
| **No. 2139**—Two blades, half crocus polished. | Cocoa handle. | Brass lined. | German silver cap and bolster | Per dozen, | $10.00 |
| **No. 2239**— " " " " " | Ebony " | " " | " " " " " | " | 10.00 |
| **No. 2339**— " " " " " | White bone handle. | Brass lined. | German silver cap and bolster | " | 11.00 |
| **No. 2439**— " " " " " | Stag " | " " | " " " " " | " | 11.00 |



No. 2160

| | | | | | |
|---|---|---|---|---|---|
| **No. 2160**—Two blades, half crocus polished. | Cocoa handle | Brass lined. | German silver cap and bolster | Per dozen, | $11 00 |
| **No. 2260**— " " " " " | Ebony " | " " | " " " " " | " | 11 00 |
| **No. 2460**— " " " " " | Stag " | " " | " " " " " | " | 12.00 |

No. 2448

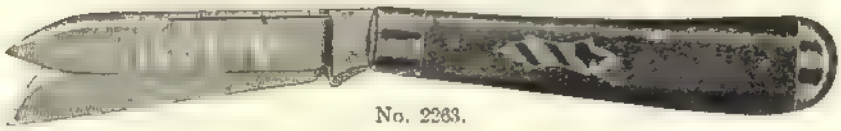
| | | | | | |
|---|---|---|---|---|---|
| **No. 2148**—Two blades, half crocus polished. | Cocoa handle. | Brass lined. | German silver cap and bolster | Per dozen, | $11 00 |
| **No. 2248**— " " " " " | Ebony " | " " | " " " " " | " | 11 00 |
| **No. 2448**— " " " " " | Stag " | " " | " " " " " | " | 12.00 |

One-half dozen in box. Cuts, three-quarter size.

# POCKET KNIVES.

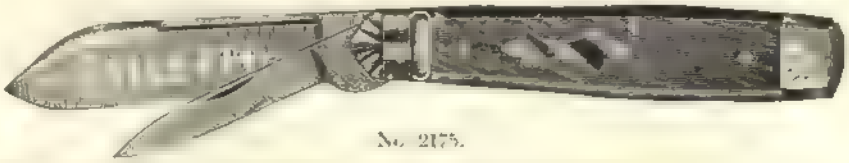
## STILETTO

Fully Warranted.



No. 2283.

**No. 2168**—Two blades, half crocus polished. Cocoa handle. Brass lined. German silver cap and bolster . . . ....Per dozen, $11.00
**No. 2268**— " " " " " Ebony " " " " " " " " " " " " 11 00



No. 2175.

**No. 2175**—Two blades, glazed Cocoa handle Brass lined German silver cap and bolster.. .. . . ....Per dozen, $11 00

No. 2442

**No. 2442**—Two blades, half crocus polished. Stag handle. Brass lined. German silver cap and bolster ..... . ..Per dozen, $12 00

No. 2441

**No. 2441**—Two blades, half crocus polished. Stag handle. Brass lined. German silver cap and bolster..... ... Per dozen, $12 00

No. 2458.

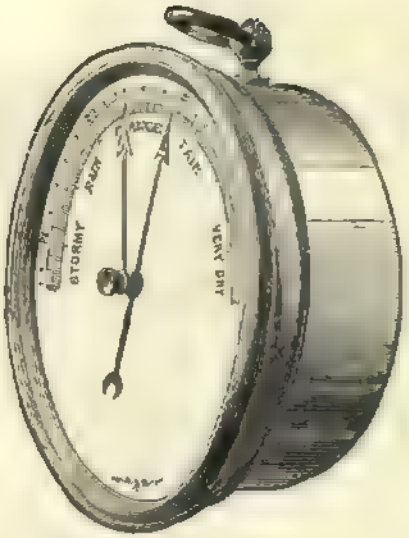
**No. 2458**—Two blades, half crocus polished. Stag handle. Brass lined German silver cap and bolster . . .Per dozen, $12 00

No. 2459.

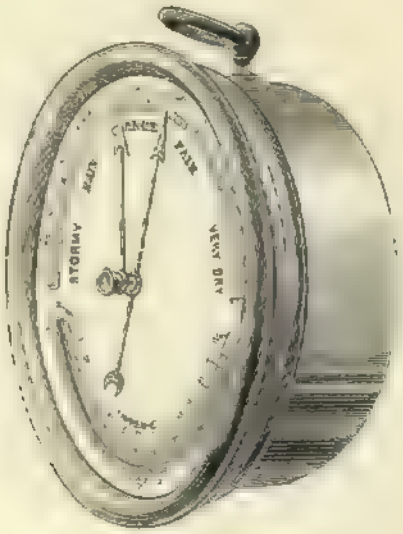
**No. 2459**—Two blades, half crocus polished. Stag handle. Brass lined. German silver cap and bolster. . . ..Per dozen, $12 00

One-half dozen in box. Cuts, three-quarter size.

# Aneroid Barometers.




Nos. 1024 and 2200




No. 2201

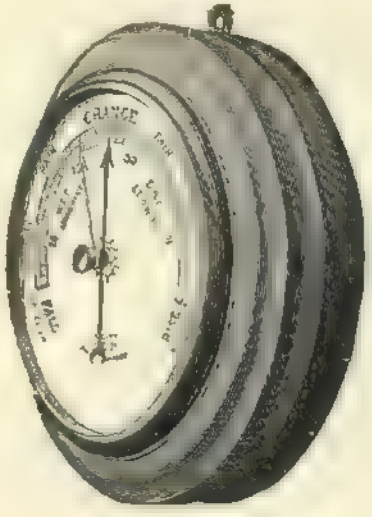
**No. 1024**—3½ in. Barometer, Polished Brass Case with Closed Enameled Card Dial, without Thermometer.....Each $10 00

**No. 2200**—5 in., Description as Above, Porcelain Dial..... " 18 00

**No. 2201** 5 " Barometer, Polished Brass Case with Closed Porcelain Dial, with Curved Thermometer on Dial.....Each, 20 00

One in a Box.

No. 2203




No. 1005

**No. 2203**—5 in. Barometer, Polished Brass Case with Open Porcelain Dial, with Curved Thermometer on Dial.....Each, $25 00

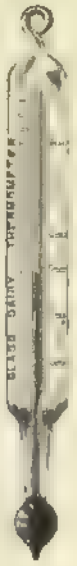
**No. 1005**—4 in. Barometer, in Round Oak Frame, with Closed Card Dial, without Thermometer " 10 00

One in a Box.

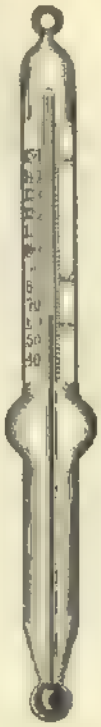
# Thermometers.

## Dairy.

No. 12.



No. 14.



No. 14½.

## Retort.

No. B1

**No. 12** — 8 in. Dairy, Bright Flange Tin Case, Weight per Dozen, 3 lbs . . . . . Per Dozen, $ 3 00
**No. 14** — 8 " Glass Dairy, Floating Thermometers, Weight per Dozen, 2½ lbs . . . . . " 3 00
**No. 14½**—10 " " " " " Hand Graduated Magnifying Tube Accurate Weight per Dozen, 3½ lbs., . . . . . Per Dozen, 6 00
**No. B1** — 9 in. Retort Heavy Bronze Case, Removable Glass Front, Graduated to about 30 lbs. Steam Pressure, Length below Nut, 3 in. Length Over All, 12 in., Extremely Sensitive and Accurate, Weight Each, 2½ lbs . . . . . Each, 12 00

No. 12, Half Dozen in a Box; B1, One Only in a Box; Nos. 14 and 14½, Packed as Ordered

## Salinometer Thermometer.

Each . . . . . $2 00

## Salinometer Thermometer Pot.

Each . . . . . $3 00

## Glass Salinometer Hydrometer.

Each . . . . . $1 50

One in a Box.

# CORN POPPERS.

SINGLE.

With Screw Shank. Red Stained Handle.

DOUBLE.

SINGLE.

| Nos. | 3 | 7 | 8 |
|---|---|---|---|
| Capacity, quarts | 1 | 2 | 4 |
| Weight, lbs | 4 | 6 | 14 |
| Per dozen | $2 50 | 4.00 | 9 00 |

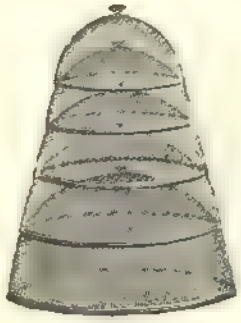
DOUBLE.

| No. | 10 |
|---|---|
| Capacity, quarts | 2 |
| Weight, lbs. | 6 |
| Per dozen | $5 00 |

No. 2, six dozen; balance, one dozen in box.

# DISH COVERS.

ROUND.



| Diameter, inch. | 6 | 7 | 8 | 9 | 10 | 12 |
|---|---|---|---|---|---|---|
| Weight, lbs. | 1¼ | 1½ | 1⅝ | 2¼ | 2½ | 2¾ |
| Per dozen | $1.20 | 1.45 | 1.75 | 2.10 | 2.50 | 4.50 |

OVAL.

| Length, inch. | 10 | 12 | 14 | 16 | 18 |
|---|---|---|---|---|---|
| Weight, lbs. | 3 | 3½ | 4½ | 5 | 6 |
| Per dozen | $3.00 | 4.00 | 5.00 | 6.00 | 7.00 |

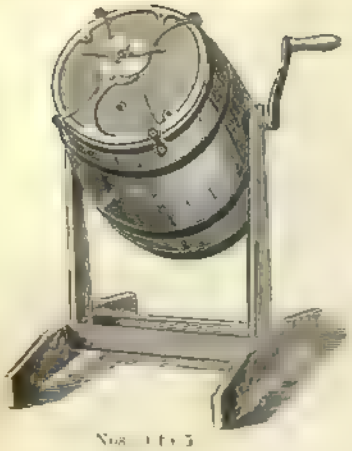
One dozen in package.

# ANT EXTERMINATOR.

BARTHEL'S.

A safe, sure, quick and clean mode of getting rid of a disgusting nuisance.

Weight, lbs. ... ... ...



Nos. 1 to 5

# Acme Bail Churns.

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| **No. 0—** | 5 | Gallon, | Churns | from | 1 | to | 2 | Gallons of Cream, | Weight, 30 lbs. | Each, $8 00 |
| **No. 1—** | 9 | " | " | " | 1 | " | 4 | " | " 34 " | " 8 50 |
| **No. 2** | 15 | " | " | " | 2 | " | 7 | " | " 40 " | " 9 00 |
| **No. 3** | 25 | " | " | " | 3 | " | 9 | " | " 45 " | " 10 00 |
| **No. 4—** | 35 | " | " | " | 4 | " | 12 | " | " 60 " | " 12 00 |
| **No. 5** | 37 | " | " | " | 5 | " | 16 | " | " 75 " | " 16 00 |

Has Steel Bails attached to malleable iron ears, thus making an almost unbreakable bail fastening

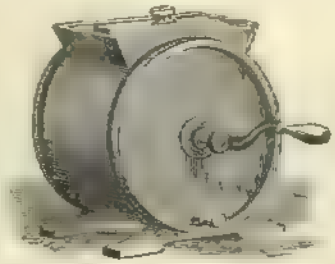
The rim is very narrow, which renders it easy to remove butter, and clean churn.

In fastening cover on Churn turn top handle sufficiently to hold bails in place only. By turning top handle too far to the right the pressure is so great as to sometimes injure the cork packing.

# Cylinder Churns.

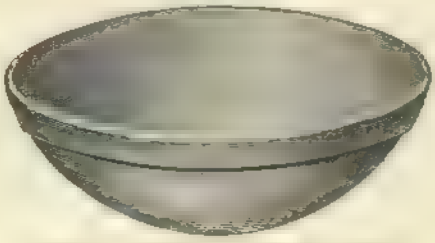
## Varnished.

| **Nos.** | **1** | **2** | **3** | **4** |
|---|---|---|---|---|
| Holding Capacity, Gallons | 2¾ | 4 | 7 | 10 |
| Churning Capacity, Gallons | 1½ | 3 | 4½ | 6 |
| Weight Each, lbs. | 12 | 14½ | 18½ | 22½ |
| Each | $2 50 | 3 00 | 3 50 | 4 00 |



Nos. 1 to 4

# Chopping Bowls.



Polished Maple Bowls, Paraffined.

| **Diameter, inch** | **13** | **15** | **17** | **19** | **21** |
|---|---|---|---|---|---|
| Weight per Dozen, lbs. | 27 | 34 | 52 | 72 | 99 |
| Per Dozen | $2 10 | 3 25 | 5 00 | 6 75 | 8 25 |

13 to 17 Inch One Dozen in a Crate. 19 and 21 Half Dozen.

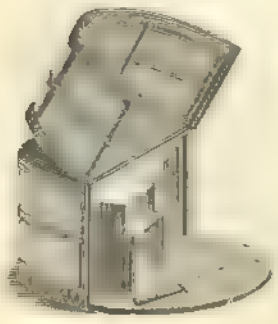
# Chopping Trays.

Oval, Wood.

| **Nos.** | **1** | **2** | **3** | **Ass't'd.** |
|---|---|---|---|---|
| Size, inch | 20×9½ | 21×10½ | 22×11 | |
| Weight per Dozen, lbs | 45 | 56 | 69 | 14 |
| Per Dozen | $3 75 | 5 00 | 6 00 | Set, $1 25 |

Half Dozen in a Crate

Round.



# Cheese Safes.

## Round.

**No. 1**—Height, 12 in., Diameter, 22 in., Weight Each, 17 lbs. ..... Each, $3 50

## Square.

**No. 22**—Size, 24×22 in. Square, Weight Each, 30 lbs. ... Each, $4 50

Square.

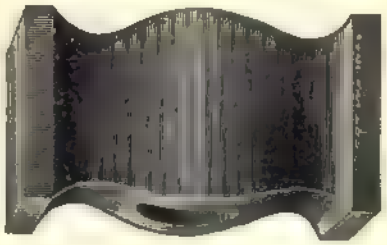
# MAULS.

## LUMBERMENS'.

Valparaiso Wood, Well Seasoned.

**No. 50**—South American. Unhandled. Length, 13 inches. Diameter of face, 4 to 4½ inches. Weight, 72 lbs.....Per dozen, $9 00

## PICKET.



Cast Iron. Square Face

**No. 60**—Unhandled, 8 to 12 lbs.....Per pound, $0.15

## SHIP OR TOP.

## RAILROAD.

Cast Steel. Oil Finished. Polished Face.

**No. 70**—Atha. Unhandled, 4 to 6 lbs.....Per pound, $0.30
**No. 80**—Horton's. " 4 " 6 ".....".32

**No. 90**—Atha. Unhandled, 7 to 9 lbs.....Per pound, $0.30
**No. 100**—Verona. " 7 " 9 ".....".30

# HAMMERS.

## MASON'S.

## NAPPING OR ROCK BREAKING.

Cast Steel. Oil Finished. Polished Face.

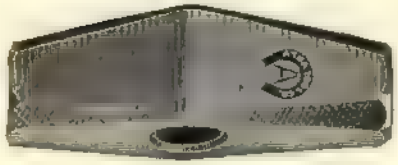
**No. 40**—Unhandled, 3 to 5 lbs.....Per pound, $0 35
**No. 40**— " 6 " 12 ".....".30

**No. 50**—Unhandled, 3 to 5 lbs.....Per pound, $0 35
**No. 50**— " 6 " 14 ".....".30

# HAMMERS.

## HAND DRILLING.

CALIFORNIA PATTERN.



NEVADA PATTERN.

Cast Steel. Oil Finished. Polished Faces.

**No. 60**—Unhandled, 3 to 4½ lbs .. .. Per pound, $0 35
**No. 65**—Handled, 3 " 4½ " .. " .45

**No. 70**—Unhandled, 3 to 4½ lbs .. . Per pound, $0.35
**No. 75**—Handled, 3 " 4½ " . . . .45

Handled, one dozen in case. Unhandled, four dozen in case.

## STRIKING.

OREGON OR SHORT PATTERN.

NEVADA OR LONG PATTERN.

Cast Steel. Oil Finished. Polished Faces.

**No. 80**—Unhandled, 5 to 16 lbs.....Per pound, $0.35
**No. 85**—Handled, 5 " 16 " ..... " .45

**No. 90**—Atha. Unhandled, 5 to 16 lbs... .....Per pound, $0.35
**No. 95**— " Handled, 5 " 16 " . . . . . .45

Phoenix. Extra quality steel. Warranted.

**No. 100**—Unhandled, 6 to 12 lbs .. ...Per pound, $0 60
**No. 105**—Handled, 6 " 12 " .. . . .. . " 75

Handled, one-half dozen in case. Unhandled, two dozen in case

---

# BLACKSMITHS' SLEDGES.

CROSS PEIN.

STRAIGHT PEIN.

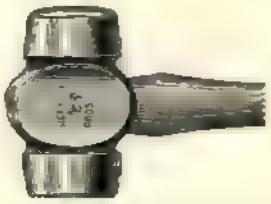
Cast Steel. Oil Finished. Polished Face and Pein.

**No. 40**—Unhandled, 8 to 16 lbs..... ..... ..... Per pound, $0.30

**No. 50**—Unhandled, 8 to 16 lbs.....Per pound, $0 30

# HAMMERS.

## HELLER'S ROUNDING.



Solid Cast Steel.

**No. 61**—Weight, each, with handle, 2½ to 2¾ lbs Per dozen, $28.80
One-quarter dozen in box.

## HELLER'S TURNING.

**No. 60**—Weight, each, with handle, 2¼ to 2½ lbs. Per dozen, $28.80
One-half dozen in box.

# FARRIERS' HAMMERS.

## MAYDOLE'S.

No. 55.

No 253.

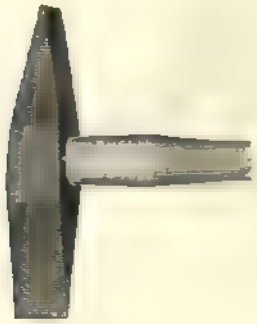
No. 152.

Solid Cast Steel.

| | | |

# HAMMERS.

## SCALING.



Solid Cast Steel

| No. | 0 |
|---|---|
| Weight, each, with handle, lbs | 1¼ |
| Per dozen | $15 00 |

## SHOEMAKERS'.

| No. | 3 |
|---|---|
| Weight, each, lbs | 1 |
| Per dozen | $3 80 |

## PROSPECTORS' PICK

Solid Cast Steel

| Nos. | 251 | 252 |
|---|---|---|
| Size | 1 | 2 |
| Weight, each, lbs | 1 | 1¼ |
| Per dozen | $15 00 | 16.00 |

## BRICKLAYERS'.

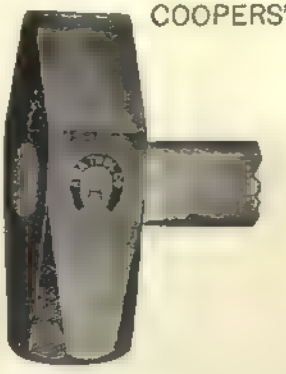
| No. | 462 |
|---|---|
| Size | 2 |
| Weight, each, lbs | 2 |
| Per dozen | $15 00 |

## PROSPECTORS' OR PICK POINTING.

Solid Cast Steel

| Nos. | 261 | 262 |
|---|---|---|
| Size | 1 | 2 |
| Weight, each, lbs | 1¾ | 1¾ |
| Per dozen | $14 00 | 15.00 |

## COOPERS'.

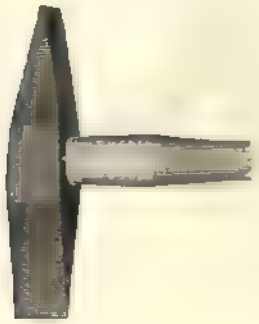


| Nos. | 423 | 424 | 424½ | 425 |
|---|---|---|---|---|
| Size | 4 | 5 | 6 | 7 |
| Weight, each, with handle, lbs | 3½ | 4 | 4½ | 5 |
| Per dozen | $19 00 | 20.00 | 21.00 | 22.00 |

Coopers' and Prospectors', one-third dozen; Pick, one-quarter dozen; balance, one-half dozen in box. Weights do not include handles.

# HAMMERS.

## SCALING.



Solid Cast Steel

| No. | 0 |
|---|---|
| Weight, each, with handle, lbs. | 1¼ |
| Per dozen | $15.00 |

## SHOEMAKERS'.

| No. | 8 |
|---|---|
| Weight, each, lbs. | 1 |
| Per dozen | $3.80 |

## PROSPECTORS' PICK

Solid Cast Steel.

| Nos. | 251 | 252 |
|---|---|---|
| Size | 1 | 2 |
| Weight, each, lbs. | 1 | 1¼ |
| Per dozen | $15 00 | 16.00 |

## BRICKLAYERS'.

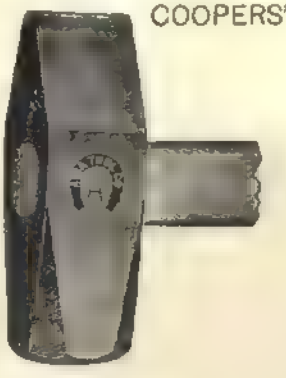
| No. | 462 |
|---|---|
| Size | 2 |
| Weight, each, lbs. | 2 |
| Per dozen | $15 00 |

## PROSPECTORS' OR PICK POINTING.

Solid Cast Steel

| Nos. | 261 | 262 |
|---|---|---|
| Size | 1 | 2 |
| Weight, each, lbs. | 1⅛ | 1¼ |
| Per dozen | $4 40 | 15 00 |

## COOPERS'.



| Nos. | 423 | 424 | 424½ | 425 |
|---|---|---|---|---|
| Size | 4 | 5 | 6 | 7 |
| Weight, each, with handle, lbs. | 3½ | 4 | 4½ | 5 |
| Per dozen | $19 00 | 20 00 | 21.00 | 22 00 |

Coopers' and Prospectors', one-third dozen. Pick, one-quarter dozen, balance, one-half dozen in box. Weights do not include handles.

# HAMMERS.

## HELLER'S ROUNDING.

Solid Cast Steel.

**No. 61**—Weight, each, with handle, 2¼ to 2½ lbs. Per dozen, $28.80
One-quarter dozen in box.

## HELLER'S TURNING.

**No. 60**—Weight, each, with handle, 2¼ to 2½ lbs. Per dozen, $28.80
One-half dozen in box.

# FARRIERS' HAMMERS.

## MAYDOLE'S.

No. 55.

No 253.

No. 152.

Solid Cast Steel

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **No. 55**—Round pattern. | Plain eye. | Weight, each, 7 ounces | | | | Per dozen, | $6.00 |
| **No. 253**—Round " | Adze " | " " 8 | | | | " | 7.00 |
| **No. 152**—Boston " | " " | " " 10 | | | | " | 8.00 |

## MAYDOLE'S.

No. 753.

No. 852.

## HELLER'S.

No. 64.

No. 65.

Solid Cast Steel

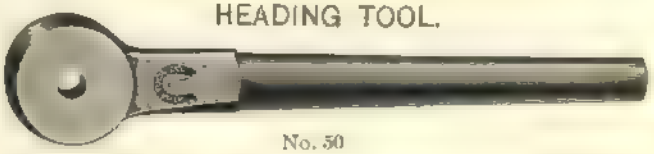
| | | | | | | |
|---|---|---|---|---|---|---|
| **No. 753**—Round pattern. | Whaleback claw. | Adze eye. | Weight, each, 8 ounces | | Per dozen, | $ 8.00 |
| **No. 852**—Octagon " | " " | " " | " " 10 " | | " | 8.00 |
| **No. 64**—California " | Adze eye | Weights, each, 13 to 18 ounces | | | " | 12.00 |
| **No. 65**—Heller's " | " " | " " | 13 " 16 " | | " | 15.00 |

One-half dozen in box. Weights do not include handles.

PACIFIC HARDWARE & STEEL COMPANY

# BLACKSMITHS' HAND TOOLS.

## HEADING TOOL.



No. 50

## COLD CHISEL.

No. 51.

## HOT CHISEL.

No. 52.

## STRAIGHT HARDIE.

No. 53.

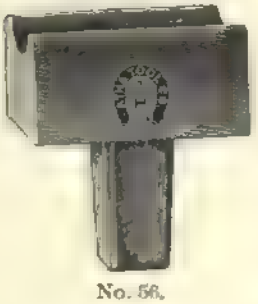
## HALF-ROUND HARDIE.

No. 54

## TOP SWAGE.

No. 55

## BOTTOM SWAGE.



No. 56.

## BOTTOM FULLER.

No. 57.

## TOP FULLER.

No. 58.

Solid Cast Steel. Oil Finished

| | | | |
|---|---|---|---|
| **No. 50**—Heading Tool. | Sizes, ¾ to 1 inch | Per pound | $0 50 |
| **No. 51** Cold Chisel. | " 1¾ " 1½ " | " | 50 |
| **No. 52**—Hot " | " 1¾ " 1½ | | 50 |
| **No. 53**—Straight Hardie | ⅝ 1 | | 50 |
| **No. 54**—Half round " | ⅝ 1 | | 50 |
| **No. 55**—Top Swage | ¾ | | 50 |
| **No. 56**—Bottom " | ¼ ⅝ | | 50 |
| **No. 57**— " Fuller. | " ¾ 2 | | 50 |
| **No. 58**—Top " | " ¾ 3 " | | 50 |

For weights, see back of Catalog.

# BLACKSMITHS' HAND TOOLS.

## ROUND EYE PUNCH.

No. 60.

**No. 60**—Round Eye Punch. Sizes, ¼ to 1¼ inches. ... Per pound 50

## FLATTER.

No. 59.

**No. 59**—Flatter. Sizes, 2 to 4 inches..... Per pound $0 50

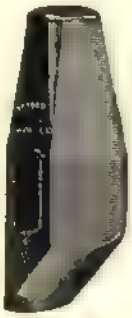
## SET HAMMER.

No. 61.

**No. 61**—Set Hammer. Sizes, 1¼ to 1½ inches.... " 50

## HELLER'S.

### CREASERS.



No. 33.

**No. 33**—Creasers. ⅜ and 1 inch. Weight, 8 lbs. Per dozen, $6.00

### FORE PUNCH.

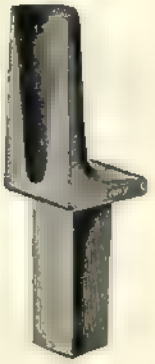
No. 34.

**No. 34**—Fore Punch. Weight, 6 lbs ... " 5.40

### STRAIGHT HARDIE.

No. 31

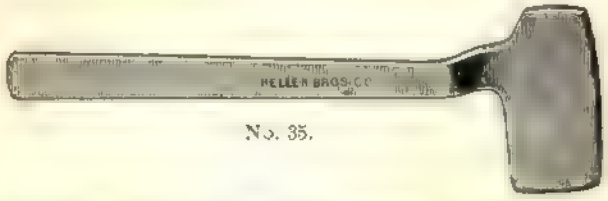
### HALF-ROUND HARDIE.



No. 32.

| Size, inch... | ¾ | ⅞ | 1 | 1⅛ |
|---|---|---|---|---|
| Weight, per dozen, lbs. ... | 11 | 13 | 16 | 24 |
| **No. 31**—Straight Hardie...Per dozen, | $6 00 | 6 00 | 6 00 | 6 00 |
| **No. 32**—Half Round ..... " | 9.60 | 9 60 | 9.50 | 9 60 |

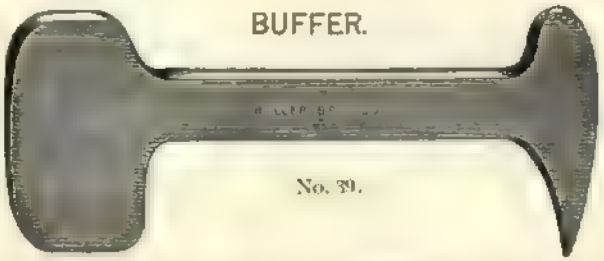
### SOLE KNIFE.




No. 35.

**No. 35**—Sole Knife. Weight, 11 lbs. ....Per dozen, $8.00

### BUFFER.



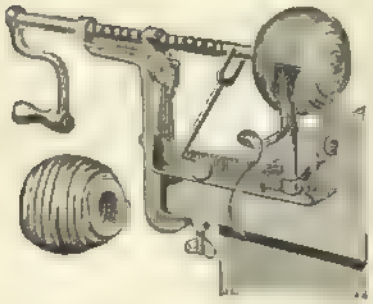
No. 39.

**No. 39**—Buffer. Weight, 10 lbs..... Per dozen. $6 00

One dozen in box.

# Paring, Coring and Slicing Machine.

## White Mountain.



Pares, Cores and Slices the Fruit and Pushes off Apple and Core. Nothing to get out of order.

**No. 2**—Weight per Dozen, 25 lbs..Per Dozen, $6 50

One Dozen in a Box

# Potato Parer.

## Saratoga.

Pares and Slices Potatoes for Saratoga Chips.

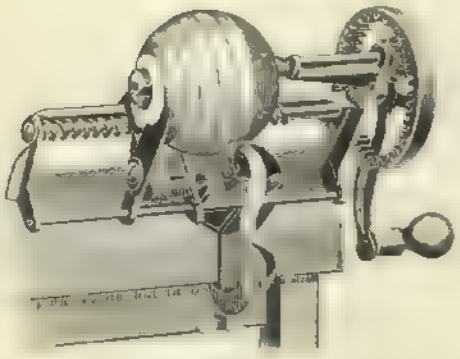
**No. 1**—Weight per Dozen, 31 lbs....Per Dozen, $8 00

One Dozen in a Box.

# Apple Parers.

## Bay State.

### Family.



This machine does good work every time, and is so strong and thoroughly made that it is much cheaper than any lower priced machine.

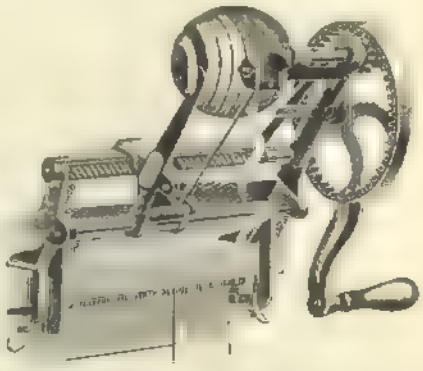
The parings fall clear of the machine.

For hotels, restaurants, and boarding houses, or where any considerable quantity of apples are used, it will save its cost in a wonderfully short time. If desired, it can be used to pare only, without coring and slicing. It can be used, also, for paring pears.

**Family**—Parer, Corer and Slicer, Weight per Dozen, 60 lbs.....Per Dozen, $15 00

Half Dozen in a Case.

### Improved.



Especially adapted for the use of bakers and evaporators of fruit or in families where an extra strong parer is needed. It is similar to the Family Bay State, but larger and stronger in every way. It has a steel feed screw and is fastened to the table at both ends.

The parings, as in the smaller machines, fall clear of the working parts. This machine has an automatic push-off for removing the cores.

**Improved**—Parer, Corer and Slicer, Weight per Dozen, 115 lbs....Per Dozen, $36 00

Half Dozen in a Case

# Cherry Stoners.

## Enterprise.

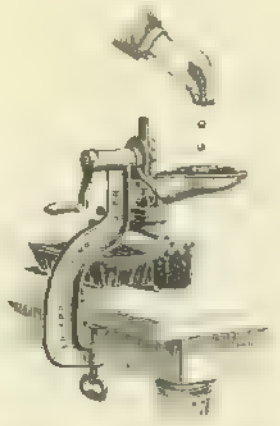
No. 14.

The above Cherry Stoner we recommend particularly to those desiring rapid work. It can be adjusted by thumb-screws to adapt it to the different sizes of cherry stones.

**Tinned, with Clamp.**

**No. 14** For Cherries of all Sizes. Weight per Dozen, 67 lbs. . . Per Dozen, $9 00

One-sixth Dozen in a Paper Box, Two Dozen in a Case



No. 12

The most satisfactory results are obtained by dropping the cherries one at a time into the hopper immediately after sweeper has passed the hole

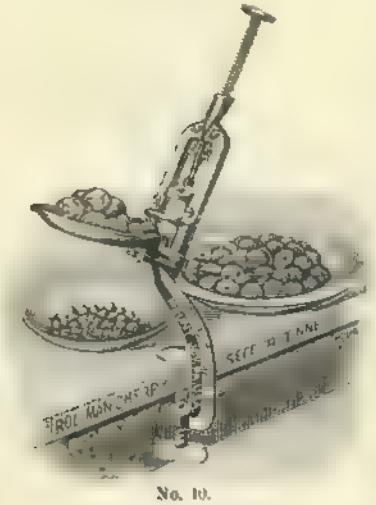
**Tinned, with Clamp.**

**No. 12**—For Cherries of all Sizes. Weight per Dozen, 60 lbs. . . Per Dozen, $12 00

One-sixth Dozen in a Paper Box, Two Dozen in a Case

# Cherry Stoners.

## Rollman.



No. 10.

**Tinned, with Clamp.**

Will seed large and small cherries without any change of adjustment.

**No. 10**—Family Size, Weight per Dozen, 24 lbs. . . . . Per Dozen, $10 00

Twelfth Dozen in a Paper Box One Dozen in a Case.

# Raisin Seeders.

## Enterprise.

No. 36

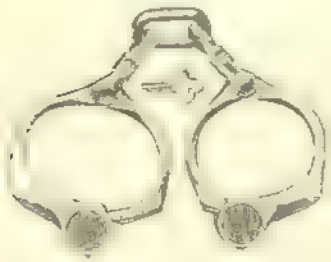
**Tinned, with Clamp.**

**No. 36**—Family Size, Capacity, 1 lb. in 5 Minutes, Weight per Dozen, 12 lbs., . . . . Per Dozen, $12 00

Twelfth Dozen in a Paper Box, Two Dozen in a Case

# Police Goods.

## Hand Cuffs.



Nos. 1 and 2

**Bean's Patent.**

**No. 1**—Bean's Patent, Polished Steel, Weight per Pair, 13 oz. . . . . Per Pair, $4 00
**No. 2** " " " " Nickel Plated . . " " 5 00

**Towers' Adjustable, Double Lock.**

**No. 10**—Double Lock, Forged Steel Bows, Full Polished, Weight per Pair, 15 oz. . . . . Per Pair, $4 00
**No. 11** Double Lock, Forged Steel Bows, Nickel Plated, Weight per Pair, 15 oz. . . . . Per Pair, 5 00

**Towers' Adjustable, Detective.**

**No. 60**—Self Locking, Forged Steel Bows, Polished, Weight per Pair, 12 oz. . . . . Per Pair, $4 00
**No. 61**—Self Locking, Forged Steel Bows, Nickel Plated, Weight per Pair, 12 oz. . . . . Per Pair, 5 00

All One Pair in a Box

## Leg Irons.

**Towers' Adjustable, Double Lock.**

**No. 50** Double Lock, Forged Steel Bows, Polished . . . . . Per Pair, $6 00
**No. 51**—Double Lock, Forged Steel Bows, Nickel Plated, . . . . . Per Pair, 7 00

**Towers' Adjustable, Detective.**

**No. 70**—Extra Light Weight, Secure and Strong, Forged Steel Bows, Self-Locking. . . . . Per Pair, $6 00

One Pair in a Box

## Twisters.

**Towers' Perfect.**

**No. 1**—Interlocking Handles, Nickel Plate. Weight Each, 8 oz. . . . . Per Dozen, $12 00

## Police Clubs.

**Bean's Patent Flexible.**

**No. 1**—Flexible, Length 10 in. . . . . Per Dozen, $21 00
**No. 2** " " 12 " . . . . . " " 24 00

Made of Sole Leather Over Elastic Steel Spring Wires, Braided Leather Handle with Swivel.

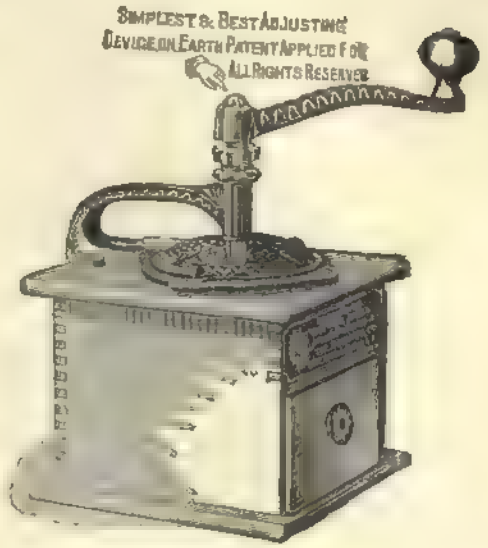
# Coffee Mills.

No. 1050.

Raised Tin Hopper, Swinging Door With Tin Cup. Castings Finely Bronzed.

**No. 1050** Height, 7 inch, Depth, 6 inch, Width, 6 inch, Weight per Dozen, 50 lbs., .....Per Dozen, $7 00

Half Dozen in a Box.

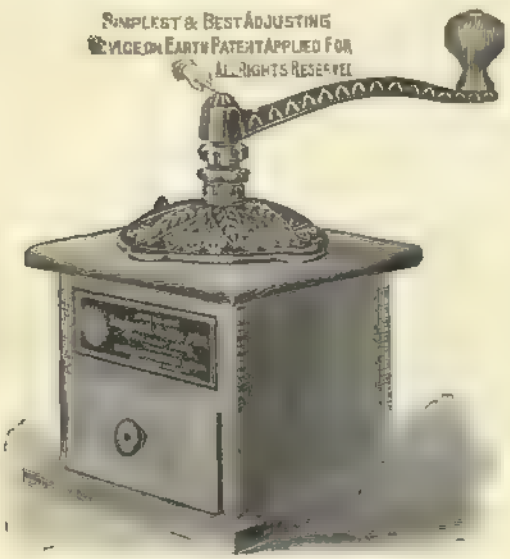



No. 40

Cast Iron Swinging Door, Grasping Handle, Long Shank, Making a Long, Easy Bearing, Insuring a Light-Running Mill; Sunken Iron Hopper; Swinging Door With Tin Cup. All Castings Finely Bronzed.

**No. 40** Height, 5 inch, Depth, 6¾ inch, Width, 6 inch, Weight, per Dozen, 50 lbs..... .....Per Dozen, $8 00

Half Dozen in a Box

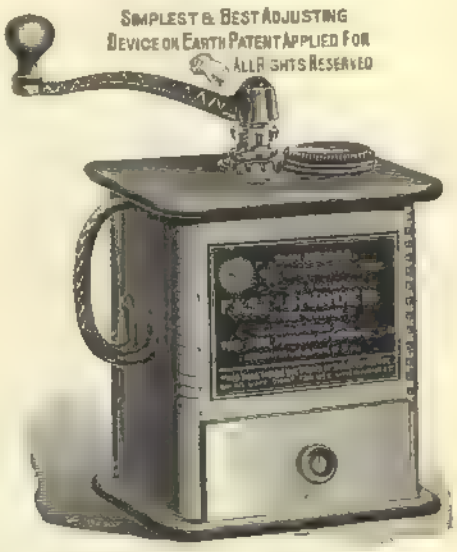



No. 1010.

Cast Iron Swinging Cover Surface Hopper, Rounded Tin Side Wood Bottom Drawer. All Castings Finely Copper Bronzed.

**No. 1010**- Height, 7 inch, Depth, 6 inch, Width, 6 inch, Weight per Dozen, 50 lbs.... .....Per Dozen, $7 50

Half Dozen in a Box.



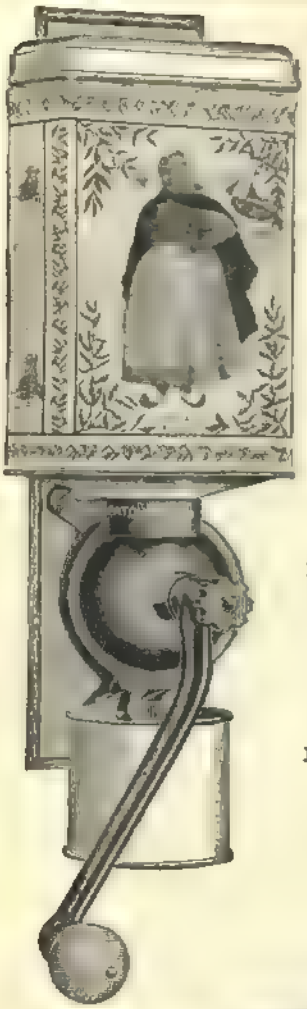

No. 1080.

Air Tight Receptacle Holds 1 lb of Coffee. Copper Bronzed and Lacquered Castings. Round Tin Side, Wood Bottom Drawer.

**No. 1080**—Height, 7⅞ inch, Depth, 6⅝ inch, Width, 6⅝ inch, Weight per Dozen, 60 lbs . . . . . .Per Dozen, $8 00

Half Dozen in a Box

# Coffee Mills.



## Canister.

A handsome Sheet Metal Canister, finely lithographed, holds one pound of coffee, will grind as fine as wanted and does not crush the berry like powder, but cuts it in grains like sand. The Canister has a tight cover so the aroma of the coffee is retained.

## Holland Beauty.

No. 3—Square Canister, Weight per Dozen, 48 lbs ...Per Dozen, $8 50

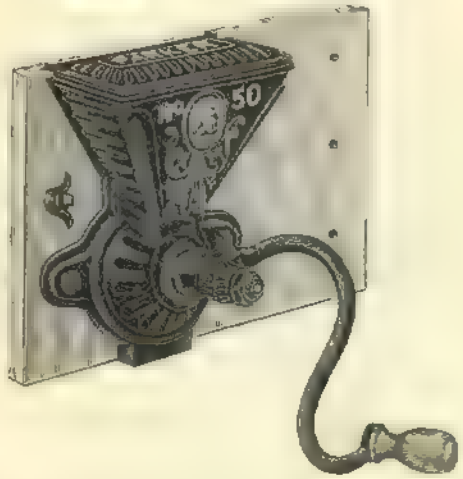
## Blue Ribbon.

No 4—Round Canister, Weight per Dozen, 48 lbs....Per Dozen, 9 00
Half Dozen in a Case

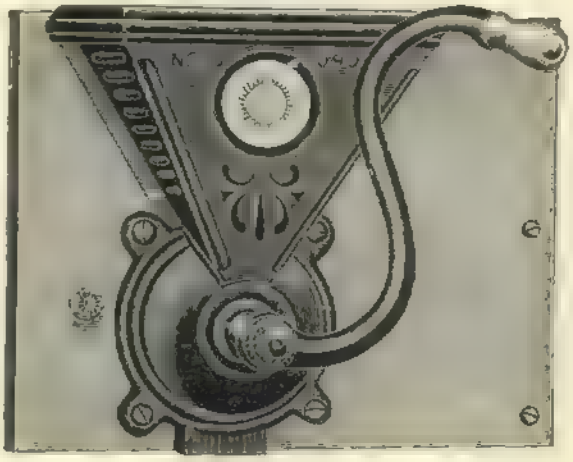
# Coffee Mills.

## Side.

Wood Back.




Nos. 50 to 80.



No 090

| Nos | 50 | 60 | 70 | 80 | 090 |
|---|---|---|---|---|---|
| Old Nos | 134 | 133 | 132 | 131 | 130 or California |
| Diameter of Hopper, inch | 1¾ × 3½ × 4 | 2 × 3¾ 4½ | 2 × 4 5½ | 2¾ × 5 6¼ | 3⅜ 5⅜ 6½ |
| Size of Board, inch | 4 × 8 | 6½ 8½ | 7¼ 10¼ | 9 × 12 | 11¼ 14⅜ |
| Weight per Dozen, lbs | 50 | 54 | 70 | 108 | 135 |
| Per Dozen | $7 50 | 8 50 | 10 00 | 16 00 | 25 00 |

**No. 090**—A Large Strong Mill, that will Grind Grain, Spice, Drugs, Etc. Suitable for Steamboat, Plantation or Store Use.
Nos. 50 to 80, Half Dozen in a Box; No. 090, Third Dozen.

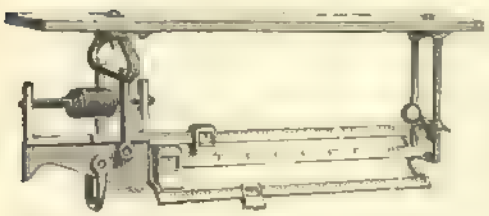
# Hay, Coal or Wagon Scales.

## Buffalo Scale Co.'s

| Nos. | Capacity, Tons. | Size of Platform. | Distance from Inside Edge of Frame to Beam Rod | Shipping Weight, Lbs. | Double Beam. | Comb. Beam. | New Beam. |
|---|---|---|---|---|---|---|---|
| 2200 | 3 | 14×7 ft. | 1 ft. 8½ in. | 660 | $145 00 | $165 00 | |
| 2202 | 4 | 15×8 " | 2 " 1½ " | 760 | 165 00 | 205 00 | |
| 2204 | 4 | 22×8 " | 2 " 0½ " | 810 | 200 00 | 245 00 | |
| 2206 | 5 | 15×8 " | 2 " 1½ " | 850 | 225 00 | 220 00 | |
| 2208 | 6 | 15×8 " | 2 " 1½ " | 900 | 225 00 | 255 00 | |
| 2210 | 6 | 18×9 " 4½ in. | 2 " 6 " | 1000 | 250 00 | 280 00 | |
| 2212 | 6 | 22×8 " | 2 " 0½ " | 1050 | 250 00 | 280 00 | |
| 2214 | 8 | 16×8 " | 2 " 2 " | 1300 | 275 00 | 305 00 | |
| 2216 | 8 | 18×9 " 4½ in. | 2 " 6 " | 1345 | 285 00 | 315 00 | |
| 2220 | 8 | 22×8 " | 2 " 0½ " | 1475 | 300 00 | 330 00 | |
| 2222 | 10 | 16 × " | 2 " 2 " | 1500 | 300 00 | 330 00 | $330 00 |
| 2226 | 10 | 20 × " 5½ in. | 2 " 5 " | 1500 | 330 00 | 360 00 | 360 00 |
| 2230 | 12 | 16 × " | 2 " 2 " | 1600 | 320 00 | 350 00 | 350 00 |
| 2232 | 15 | 16 × " | 2 " 2 " | 1700 | 390 00 | 420 00 | 420 00 |

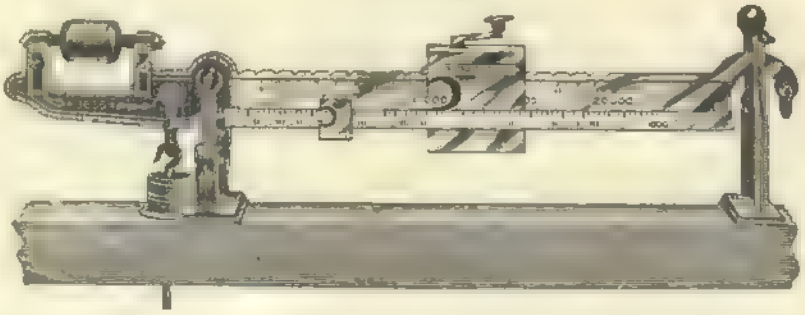
The above prices are exclusive of lumber and foundation.
The Scales not Carried in Stock but are shipped direct from the Manufacturer to the Customer.

## Patent Combination Beam.



## New Beam.

For Heavy Work.



### Patent Combination Beam.

This beam dispenses with the use of weights, the weighing being done exclusively with the poises. The trouble frequently caused by the loss or misplacement of weights is thus obviated. These beams and poises are made of brass, beautifully polished, and in addition to their conveniences are an ornament to any office.

### New Beam.

This beam has brass front on main bar and the front bar is brass. It is only intended for wagon or stock scales of 10 tons capacity or more. No loose weights.

# Scales.

## Buffalo Scale Co's.

Two Pillar Dormant.

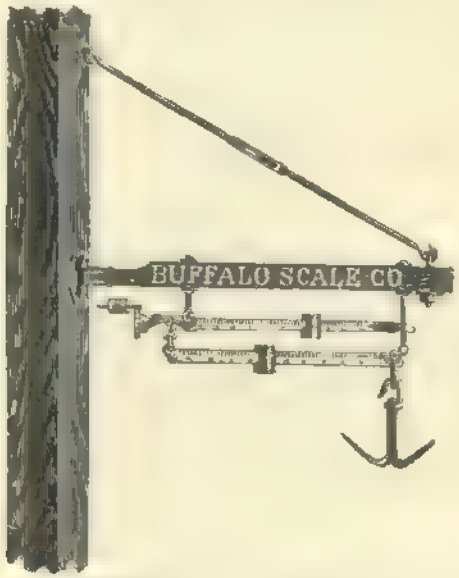
Iron Frame.

With Two Bronzed Iron Pillars, Double Beam and Graduated Counterpoise with Weights and Sliding Poise.

| Nos | 1719 | 1721 | 1723 |
|---|---|---|---|
| Capacity, lbs | 2500 | 2500 | 3500 |
| Platform, inch | 36×37 | 37×46 | 42×44 |
| Platform to Pillars, inch | 14 | 11½ | 12½ |
| Shipping Weight, lbs | 890 | 850 | 1050 |
| Each | $105 00 | 105 00 | 125 00 |

Beams Marked in ½ lbs.

Reverse-Acting Meat Beam.




Complete ready to fasten to post.

Length of Beam (No. 1598) 34 inches. No Weights Required. Brass Beams and Poises. Nickel Plated, Marked on Both Sides.

| Nos | 1598 | 1600 |
|---|---|---|
| Capacity, lbs | 1100 | 600 |
| Weight Each, lbs | 125 | 100 |
| Each | $50 00 | 40 00 |

Beams Marked in ½ lbs.

## Portable Suspension Scale.

**With Woodwork Complete, Posts 10 Feet High.**

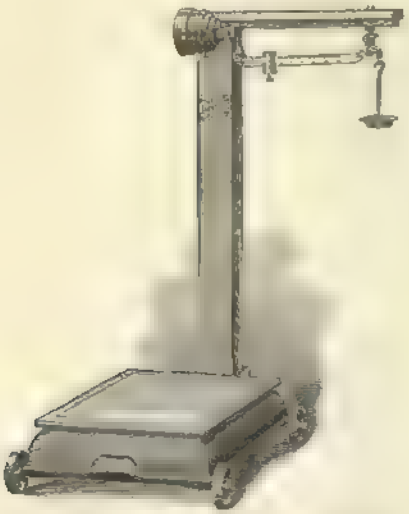
May be set into floor like "Dormant" and have platform level with floor.

| | | Single Beam | Double Beam. |
|---|---|---|---|
| **No. 1592**—Capacity 4000 lbs., by ½ lb., Platform 5×5 ft., with Zinc Weights | Each, | $154 00 | 159 00 |

Shipping Weight 1,000 lbs.

# Portable Platform Scales.

## Imperial.

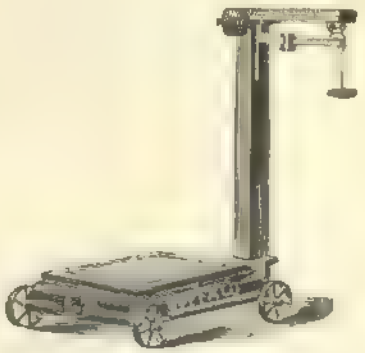


With Wheels and Sliding Poise.

| Nos. | 60 | 80 | 100 | 120 |
|---|---|---|---|---|
| Capacity, lbs | 600 | 800 | 1000 | 1200 |
| Platform, inch | 25 16 | 25 17 | 21 17 | 28 20 |
| Shipping Weight, lbs. | 175 | 190 | 200 | 325 |
| Each | $16 50 | 18 50 | 21 00 | 26 25 |

Nos. 60 and 80, 50 lb. Beam, marked in ¼ lbs.
Nos. 100 " 120, 100 lb. " " " ½ "

## Buffalo Scale Co.'s



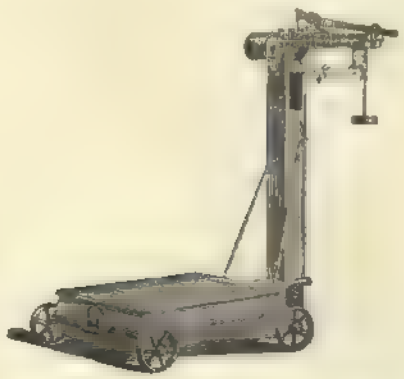
With Wheels and Sliding Poise.

| Nos. | 1200 | 1202 | 1204 | 1206 | 1208 |
|---|---|---|---|---|---|
| Capacity, lbs | 400 | 600 | 800 | 1000 | 1200 |
| Platform, inch | 21 15 | 25 16 | 25 17 | 28 17 | 28 20 |
| Shipping Weight, lbs. | 150 | 185 | 190 | 200 | 325 |
| Each | $26 00 | 33 00 | 38 00 | 43 00 | 48 00 |

Nos. 1200 to 1204, 50 lb. Beam, marked in ¼ lbs.
Nos. 1206 " 1208, 100 " " " " ½ "

## Buffalo Scale Co.'s

### Drop Lever.

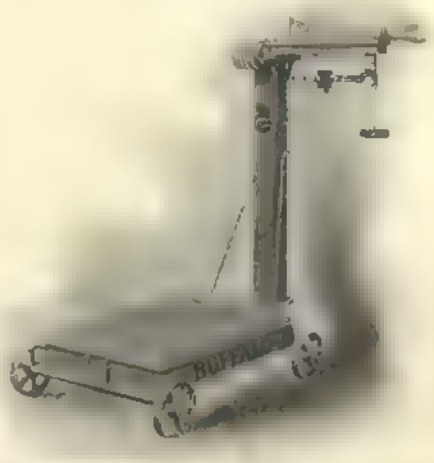


Drop Lever, With Wheels and Sliding Poise.

| Nos. | 1242 | 1244 | 1248 | 1250 |
|---|---|---|---|---|
| Capacity, lbs | 1000 | 1200 | 2000 | 2500 |
| Platform, inch | 26×17 | 28×20 | 33×23 | 33×24 |
| Shipping Weight, lbs | 240 | 345 | 445 | 500 |
| Each | $50 00 | 56 00 | 82 00 | 94 00 |

100 lb. Beam, marked in ½ lbs.

## Salt Meat and Fish Scale.



With Drop Lever, Sliding Poise and Set Screws.
**All Iron Work Galvanized.**

This Scale has a solid iron platform with flanges around the edges which protect the working parts of the Scale.

**No. 1386**—Capacity, 1000 lbs. Platform, 17 26 inches.
Shipping Weight Each, 275 lbs.....Each, $71 00
100 lb. Beam marked in ½ lbs.

# RODS.

## CALCUTTA BAMBOO.

No. 102

**No. 102**—Four-piece. Length, 18 feet. Double ferrules. Butt cap. Reel bands and guides. Varnished.....Per dozen, $21.00
**No. 104**— " " 20 " " " " " " " " " " Extra heavy. Varnished.. " 33.00

## LANCEWOOD, FLY.

No. 24.

**No. 24**—Three-piece. Length, 10½ feet. All lancewood. Ebonite grip. Full nickel mounted. Solid reel seat. Wound rings and keepers. Finely finished in natural color of wood. Each rod in cloth partition bag.....Per dozen, $18 00

**No. 25**—Three-piece and extra tip. Length, 10½ feet. Made of selected Cuban lancewood. Black and white celluloid grip. Fine nickel finish mountings. Patent water-tight reel seat and welted rimmed ferrules. Metal plugs. Silk-wound rings and keepers, with red and green silk. Finely finished with French polish in natural color. Each rod on wooden form and in cloth bag.. " 24 00

## GREENHEART FLY.

**No. 28**—Three-piece, and extra tip. Length, 10½ feet. Made of fine South American greenheart. Black and white celluloid wound grip. Fine nickel finish mountings. Solid metal reel seat and welted rimmed ferrules. Metal plugs. Silk-wound rings and keepers. Finely varnished and polished. Each rod on wooden form and in cloth bag.....Per dozen, $42 00

## JAPANESE CANE, BAIT.

No. 88

**No. 88**—Three-piece. Length, 10½ feet. Ebonized grip. Full nickel finish mountings. Solid metal reel seat. Silk-wound tie guides. Finely varnished.....Per dozen, $16 00
**No. 92**—Same as No. 88. With cork grip..... 16 00

# Whistles and Calls.

No. 14

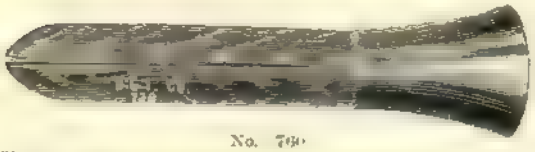
No. 2.

No. 620.

**No. 14**—White Bone ..... Per Dozen, $2 00
**No. 2**—Universal Calls, Lip Mouthpiece and Chain, Small Size ..... " " 3 00
**No. 114** " " Large Size ..... " " 4 50
**No. 620**—Echo Calls ..... " " 3 00

One Dozen in a Box

## Duck Calls.



No. 760

No. 7

**No. 760**—Duck Call, Cocobola Wood, Nickel Tip ..... Per Dozen, $6 00
**No. 7**—Allen's Duck Call, Wood Shell, Metal Ends ..... " " 9 00

One Dozen in a Box

# Decoys.

## Collapsible Canvas.

These Decoys are made of the Strongest Canvas, made Air and Water Tight by a Special Preparation. They are Carefully Painted and when Inflated with Air Float on the Water in the most Lifelike manner. When not in use they are deflated and in this state occupy a very small space, much less than any other Decoy.

**No. 12**—Canvas Decoy Duck, with Anchor, Mallard, Canvas Back and Teal, Weight Each, 4 oz. Per Dozen, $12 00
**No. 22**—Brass Faucet for Inflating Canvas Ducks ..... " " 2 50

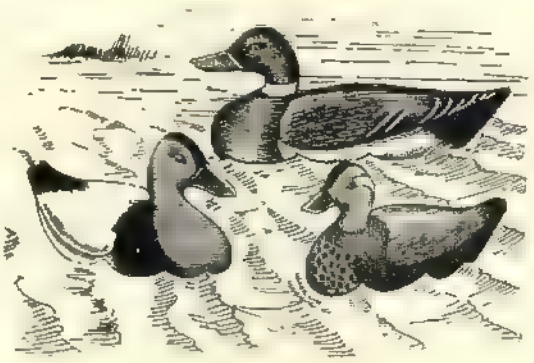
Packed One Dozen in a Hinged Box with Handle, Assorted Male and Female

## Wood.

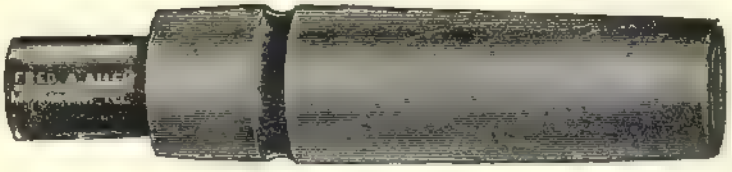
**No. 1**—White Cedar, Decoy Duck, Mallard, Canvas Back and Teal, Weight per Dozen, 27 to 36 lbs. ..... Per Dozen, 3 50

## DECOYS.

**No. 10**—Hollow collapsible canvas duck Decoys, water-proof and air-tight canvas, painted natural as life, packed one dozen in a wooden box, assorted male and female, mallard, canvasback, sprig, widgeon and teal..... Per dozen, $12.00
**No. 20**—Hollow collapsible geese Decoys..... " 21.00
**No. 30**—Solid white cedar duck Decoys, glass eyes..... " 9.00
**No. 40**—Canvas Decoy Dressing in ¼ or ½ gallon cans.....Per gallon, 6.00



## DUCK, GOOSE AND QUAIL CALLS.



**No. 7**—Allen's Duck Call, wood shell, metal ends..... Per dozen, $8.50

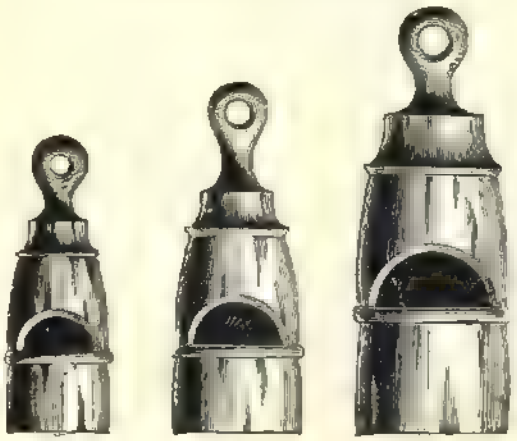
**No. 17**—Fuller's Goose and Crane Call, boxwood mouthpiece and nickel body... Per dozen, $18.00

**No. 27**—Patent Widgeon or Quail Call ..... Per dozen, $1.50

**K No. 2**—Duck Call, cocobolo wood, nickel tip, Per dozen, $6.00

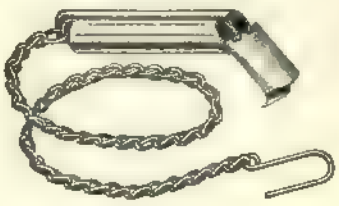
## POLICE WHISTLES AND CALLS.

### BRITTANIA WHISTLES.



No. 11. No. 12. No. 13.

### UNIVERSAL WHISTLE.



No. 2.

### ECHO CALL.

No. 620.

**No. 11**—Brittania metal.....Per dozen, $1.50
**No. 12**— " " ..... " 2.00
**No. 13**— " " ..... " 3.00
**No. 2**—Universal ..... " 3.50
**No. 620**—Echo, round nickel..... " 4.00

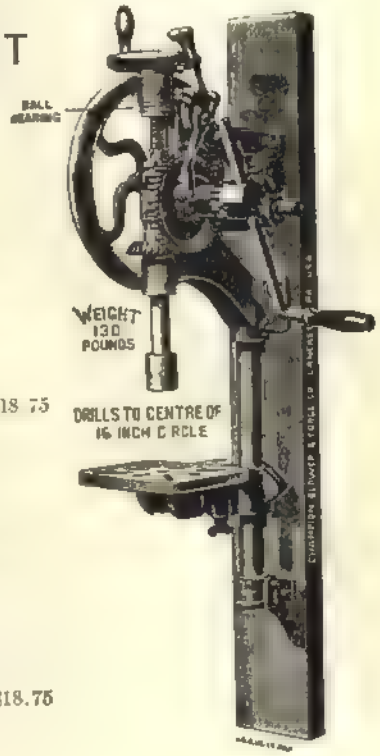
# BLACKSMITHS' UPRIGHT DRILLS.

## CHAMPION.

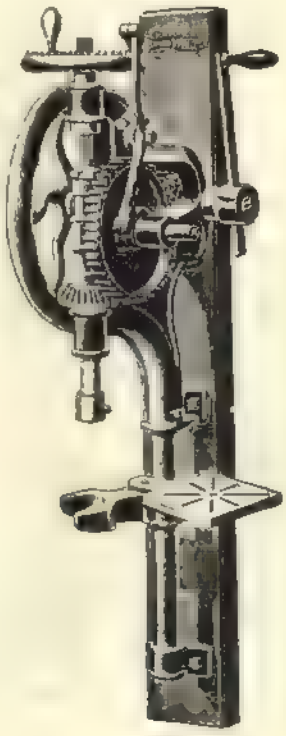
No. 96.

**No. 96**—Self feed. Drills 1/4 to 1¼-inch hole to center of a 15½-inch circle. All gears are protected with double journal bearings. All bearings are ground to a working fit out of the solid metal. It has two speeds. Spindle is bored for 4 1/4-inch Morse No. 110 drills. Weight, 135 lbs.....Each, $18 75

**No. 30**—Self feed. Ball bearing. Drills 1/4 to 1¼-inch hole to center of a 16-inch circle. Has spindle 1¼ inches in diameter and up and down run of 3½ inches. All bearings are ground to a working fit out of the solid metal. Spindle is bored for 4 1/4-inch Morse No. 110 drills. Weight, 130 lbs.....Each, $18.75



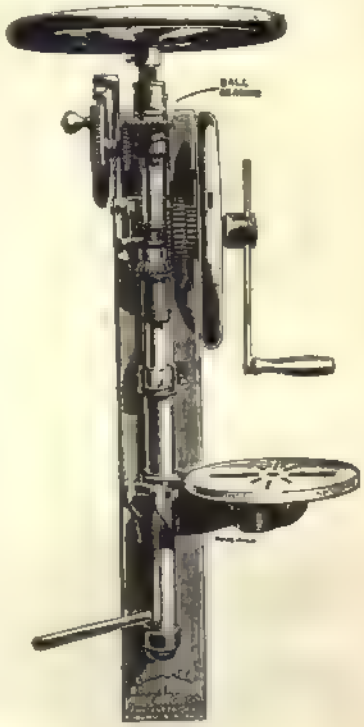

No. 30.



No. 4.

**No. 4**—Self feed. Ball bearing. Drills ¼ to 1½-inch hole to center of a 18-inch circle. Has spindle 1¼ inches in diameter and up and down run of 5 inches. Spindle is bored for 4 1/4-inch Morse No. 110 drills Weight, 200 lbs .....Each, $25 00

**No. 85**—Self feed. Ball bearing. Drills 1/4 to 1½-inch hole to center of a 18-inch circle. Spindle is bored for 4 1/4-inch Morse No. 110 drills. With wheel holder. Weight, 215 lbs.....Each, $30 00

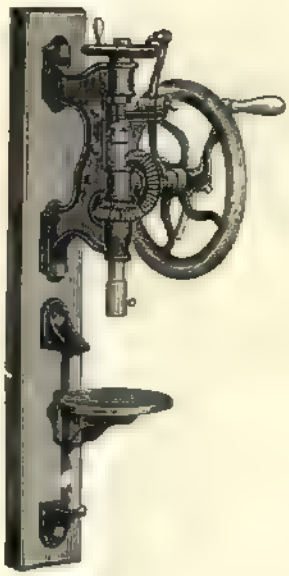



No. 25.

For sets of drills for the above, see page 66.

# BLACKSMITHS' UPRIGHT DRILLS.

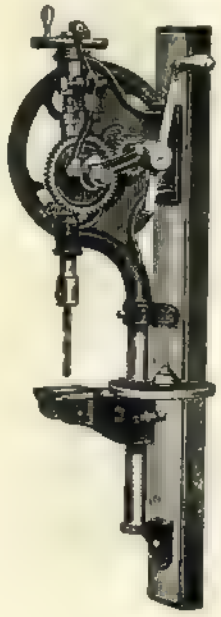
## BOYNTON & PLUMMER'S.



No. 1.

**No. 1**—Self-feed. Drills from 0 to 1-inch hole to center of a 10-inch circle. Length, 42 inches. Weight, 98 lbs. ..... Each, $28.00

**No. 1½**—Self-feed. Drills from 0 to 1½-inch hole to center of a 10-inch circle. It has nearly a continuous feed which may be quickly adjusted by a thumbscrew to three rates of speed. A fast or slow motion may be given the drill by changing the handle from shaft A to shaft B as desired by the operator. By this arrangement the capacity of the drill has been increased nearly one-third. Length, 44 inches. Weight, 120 lbs. ..... Each, $34.00



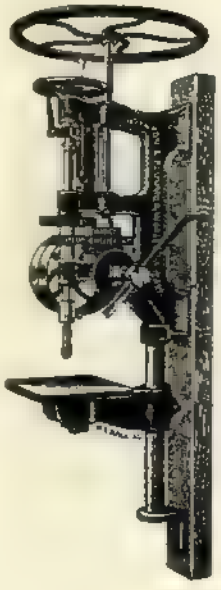
No. 1½.

**No. 2**—Self-feed. Drills from 0 to 1½-inch hole to center of a 15-inch circle, same arrangement as No. 1½. Length, 54 inches. Weight, 160 lbs. Each, $48.00

No. 2.

**No. 2 P**—Self-feed. For hand or power, with two pulleys. Weight, 182 lbs ..... Each, $52.00

**No. 3**—Self-feed. Drills from 0 to 1⅝-inch hole to center of a 19-inch circle. It has cut gears so arranged that a quick or slow motion may be given the drill, as desired, for light and heavy work. Length, 65 inches. Weight, 250 lbs. For hand or power, with two pulleys..... Each, $79.00



No. 3.

All the above have sockets 1 1/16-inch diameter, suitable for Morse No. 110 Drills.

For sets of drills for the above, see page 66.

# BLACKSMITHS' OUTFIT.

Farriers' Knife.

Cast Steel Cold Chisel.

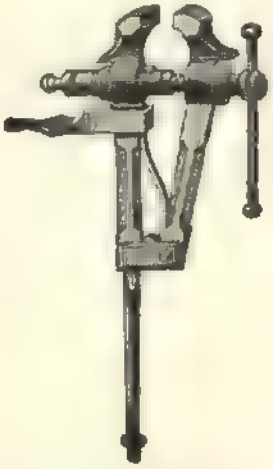
Cast Steel Hot Chisel.

18-inch Wrought Iron Tongs.

12-inch Cast Steel Blacksmiths' Pincers.

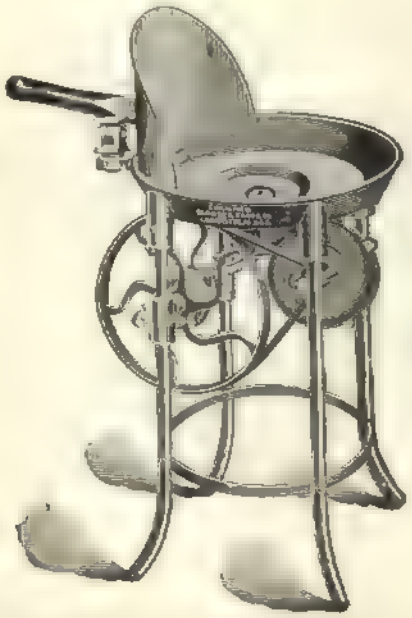
Stock and Dies, cutting bolts ⅛ to ⅝ inch.

Blacksmiths' Hammer.



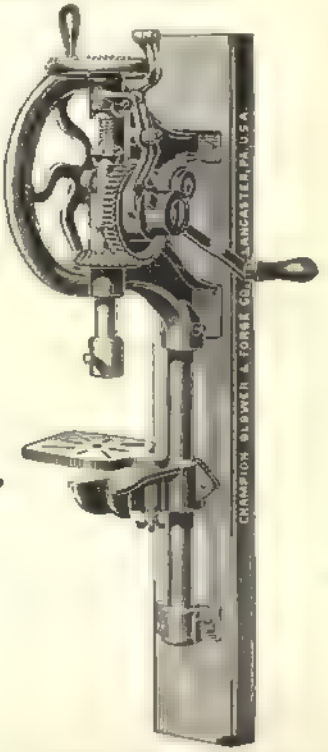
50-lb. Vise, 4½-inch Jaws.

Farriers' Adze Eye Hammer



18-inch diameter Steel Forge, with Shield.

100-lb. Phoenix Anvil, fully warranted.



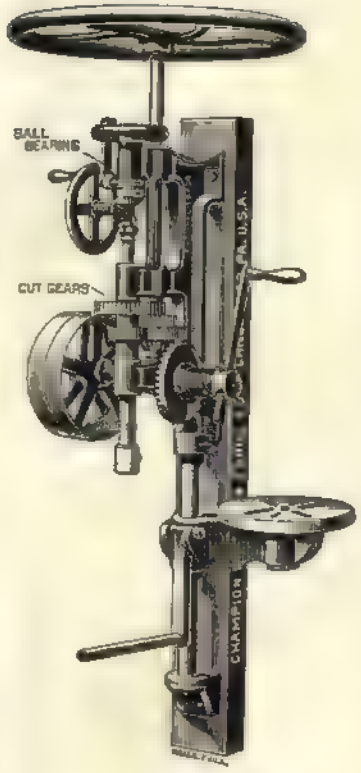

Champion Drill. Drills 1/64 to 1-inch hole to center of a 14½-inch circle.

The above outfit is particularly adapted for a small-sized blacksmith shop. All tools are of best quality and fully guaranteed.
Complete ..... $40 00

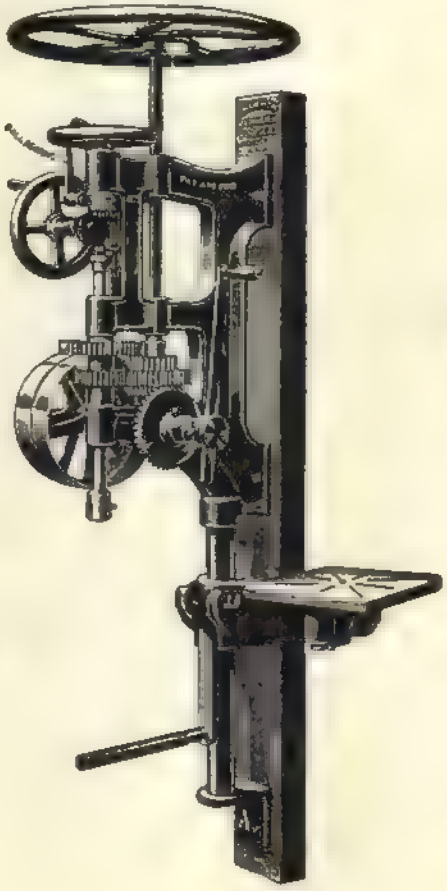
Weight, about 335 lbs

# BLACKSMITHS' UPRIGHT DRILLS

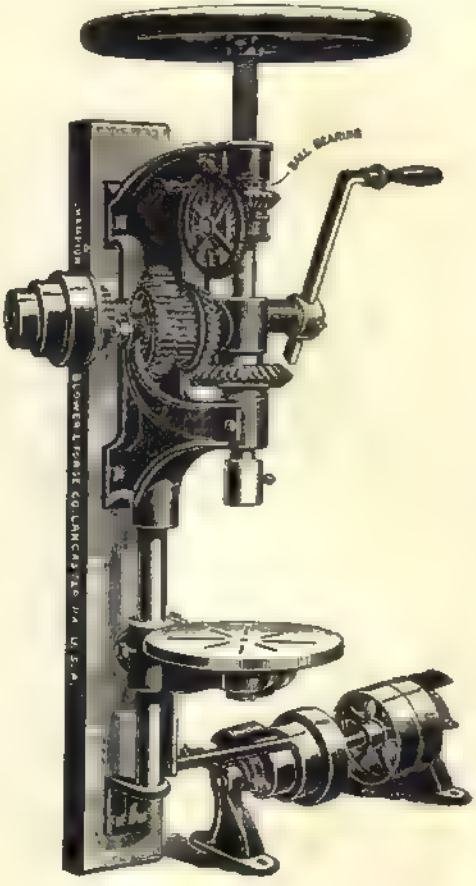
## CHAMPION.




No 999.



No. 37.




No 25.

**No. 999**—Self-feed Cut geared. Drills 1/64 to 1½-inch hole to center of a 16-inch circle. Spindle is bored for 1 1/64-inch Morse No 110 drills Feed has a rim of 5 inches. Pulleys, 10x2½ inches Speed for ordinary work, 180 revolutions per minute. Weight, 225 lbs. Without pulleys.. ..... Each, $40.00

**No. 999P**—Same as 999. With pulleys.... " 45 00

**No. 37**—Self-feed. Ball bearing. Cut geared. The bearings on this drill are the very best—ground and polished out of the solid metal to a working fit. Drills 1/64 to 1½-inch hole to center of a 19-inch circle. Spindle is bored for 1 1/64-inch Morse No. 110 drills. Pulleys, 10x2½ inches. Speed for ordinary work, 180 revolutions per minute Length, 65 inches. Weight, 325 lbs. Without pulleys..... " 45 00

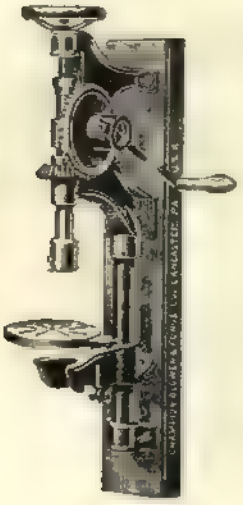
**No. 37P**—Same as 37. With pulleys.... " 50.00

**No. 25**—Self-feed. Ball bearing. Cut geared. Drills 1/64 to 1⅛ inch hole to center of a 20-inch circle. Spindle is bored for 1 1/64-inch Morse No. 110 drills. Fitted with cone pulley and counter shaft. Weight, 350 lbs..... " 60 00

For sets of drills for the above, see page 66.

# BLACKSMITHS' UPRIGHT DRILLS.

## CHAMPION.

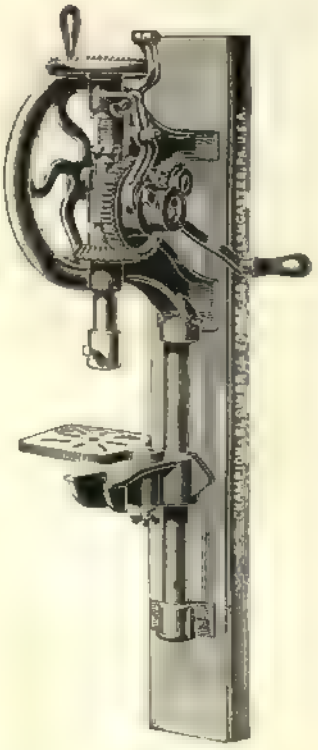


No. 92.

**No. 92**—Hand-feed. Drills 1/64 to 1/2-inch hole to center of a 14-inch circle. Diameter of spindle, 1 inch. Has a slotted table planed off on its top side. Shaft is made of 1-inch steel and has an up-and-down run of 3 inches. It is made all through of the best material, bearings all ground out of solid metal. Spindle is bored for 4 1/64-inch Morse No. 110 drills. Weight, 65 lbs.....Each, $8.00

No. 101

**No. 101**—Self-feed. Drills 1/64 to 3/4 inch hole to center of a 12-inch circle. Diameter of spindle, 3/4 inch. Has an up-and-down run of 3 inches. Spindle is bored for 4 1/64-inch Morse No. 110 drills. Weight, 80 lbs.....Each, $10.50



No. 90.

**No. 90**—Self-feed. Drills 1/64 to 1-inch hole to center of a 14½-inch circle. Has spindle 1¼ inches in diameter and up-and-down run of 3 inches. Spindle is bored for 4 1/64-inch Morse No. 110 drills. Weight, 100 lbs.....Each, $12.75

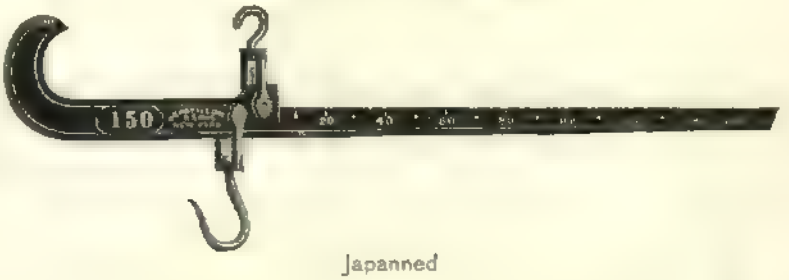
**No. 93½**—Self-feed. Drills 1/64 to 1¼-inch hole to center of a 15-inch circle. Has spindle 1⅜-inches in diameter and up-and-down run of 3 inches. Spindle is bored for 4 1/64-inch Morse No. 110 drills. Weight, 115 lbs.....Each, $14.25

No. 93½.

For sets of drills for the above, see page 66.

PACIFIC HARDWARE & STEEL COMPANY

# SCALE BEAMS.



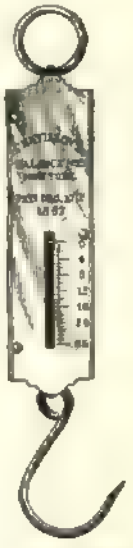

Japanned

| Capacity, lbs. | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | 700 | 800 | 1000 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weight, lbs. | 10 | 11 | 14 | 18 | 22 | 26 | 29 | 34 | 39 | 45 | .. | . |
| Each | $1.50 | 1 60 | 1.90 | 2.10 | 2.50 | 2.90 | 3.20 | 3.50 | 4.00 | 4 66 | 5 30 | 6.66 |

Six in case.

# SPRING BALANCES.

No. 10.



Nos. 20 and 30.

Nos. 40 and 70.

Nos. 200 to 400.

**No. 10**—Round. With hook. Capacity, 24 lbs., by ½ lb. Weight, 5 lbs... Per dozen, $4 00
**No. 20**—Straight. Light, with hook. Capacity, 25 lbs., by ½ lb. Weight, 7 lbs.. " 1 60
**No. 30**— " " " " " 48 " " 1 " " 10 " " 3 00
**No. 40**— " Heavy " " " 25 " " ½ " " 24 " " 4 00
**No. 70**— " " " " " 50 " " 1 " " 26 " " 8 00

No. 10, one dozen; Nos. 20, 30 and 40, one-half dozen; No. 70, one-quarter dozen in box

## ICE.

**No. 200**—Capacity, 200 lbs., by 2 lbs. Weight, 4¾ lbs. Each, $4 75
**No. 300**— 300 " " 5 " " 5 " " 5 00
**No. 400**— 400 " " 5 " " 5½ " " 6 00

One in box.

# Target and Sporting Rifles.

## Stevens-Maynard Jr., No. 15.

Showing Action Opened.

**No. 15** Stevens-Maynard Jr. has an 18 in. Half Octagon Barrel, Walnut Stock and Forearm, Blued Steel Frame and Butt Plate, Lever Acting. All Fine y Finished. It Measures over all 33 in. and Weighs 2¾ lbs. The Barrel is Accurately Bored and Rifled. Chambered for 22 Short Rim Fire Cartridges. Machine Made and all Parts are True to Gauge and Interchangeable. Packed One in a Pasteboard Box.....Each, $3 00

## The Hamilton Rifle.

"Knocked down" for Packing.

**No. 25** Hamilton, Constructed of Steel Throughout, Blue Black Gun Finish with "Take Down" Walnut Stock Full Length 28½ in. Rear Peep Sight with Adjustment both Ways. Lever Action with Shell Extractor. Chambered for .22 Short and Long Rim Fire Cartridges, Weight 2 lbs.....Each, $2 00

# Air Rifles.

## "Chicago."

**Chicago**—Stock is Maple, Nicely Stained and Varnished, the Barrel, Air Chamber, and all Working Parts are Made of Brass and Steel. The Plunger or Piston is of the Very Best Steel, Made Specially for this Purpose. Uses BB shot, Single Shot..Per Dozen, $12 00

## King Air Rifle.

**King Single Shot**—Nickel-Plated and Polished, Handsome in Appearance, with Walnut Stock and Pistol Grip, Substantial and Durable, Made of Steel, all Parts Interchangeable for Repairs if Needed.....Per Dozen $12 00

## The King Repeating Air Rifle.

**King Repeating**—Same Style and Finish as King Single Shot. Shoots 150 Times without Reloading. Strong, Durable and Accurate.....Per Dozen, $15 00

# Stevens' Rifles.

## Favorites.

No. 17

**.22, .25 and .32, R. F., Short or Long.**

**No. 17**—Plain Open Front and Rear Sights..... Each, $6 00

No. 18

**.22, .25 and .32, R. F., Short or Long.**

**No. 18** Beach Combination Front Sight, Open Rear and Vernier Peep Sights.. . . . Each, $8 50
**No. 19**—Lyman Front, Open Rear and Lyman Peep Sights..... " 9 00

## Pocket or Bicycle Rifle.

No. 40 Round Barrel, Stevens Combination Sights with Detachable Skeleton Stock, Frame and Stock Nickel-Plated, same Style as the Hunter's Pet, but lighter; in Three Calibers, .22 Long Rifle R. F., .25 R. F. and .32 Long R. F.; Weight Varying from 2 to 2¾ Pounds, According to Length of Barrel.

10 in. Barrel..... Each, $ 9 25 | 15 in. Barrel..... Each, $11 25
12 " " ..... " 10 00 | 18 " " ..... " 12 50

## "The Crack Shot."

**Made to Shoot .22 Short and Long.**

This model was designed to meet the requirements of a good boy's rifle at a low price. Special attention has been paid to the quality, finish and accuracy of this rifle. We have no hesitancy in recommending it, and it is not to be compared with the foreign-made Flobert that is constantly getting out of order and seldom shoots accurately. This rifle has a positive Automatic Kicking Extractor, and is a Take-Down, making it convenient for carrying. Has also an Automatic Safety, which positively prevents an accidental discharge. Machine made, all parts being true to gauge.

**No. 18**—20 in. Barrel, Weight 4 lbs..... Each, $4 00

For Component Parts for Stevens Rifles see Page 1098.

# WATER KEGS.

Galvanized. With Handle.

| Nos. | 22 | 44 |
|---|---|---|
| Capacity, gallons | 2 | 4 |
| Weight, lbs. | 21 | 24 |
| Per dozen | $7 50 | 9 50 |

Oak. With Handle and Four Hoops.

| Nos. | 1 | 2 |
|---|---|---|
| Capacity, gallons | 1 | 2 |
| Weight, lbs | 48 | 72 |
| Per dozen | $12.00 | 15 00 |

# DEMIJOHNS.

Heavy Glass. Reed Covered

| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Capacity, gallons | ½ | ½ | 1 | 2 |
| Weight, lbs. | 20 | 25 | 39 | 78 |
| Per dozen | $3 25 | 4.00 | 6 00 | 9 00 |

One-half dozen in bundle

# CANTEENS.

Plain. Galvanized. Without Straps.

| Nos. | 02 | 04 | 06 | 08 |
|---|---|---|---|---|
| Capacity, quarts | 2 | 4 | 6 | 8 |
| Inch | 7¼ | 9¼ | 11⅝ | 12½ |
| Weight, lbs. | 12 | 17 | 23 | 28 |
| Per dozen | $5 25 | 7.50 | 9.00 | 12.00 |

Galvanized. Cloth Covered. With Canvas Strap and Center Brace.

| Nos. | 112 | 114 | 116 | 118 |
|---|---|---|---|---|
| Capacity, quarts | 2 | 4 | 6 | 8 |
| Inch | 8¼ | 10¼ | 12⅝ | 13½ |
| Weight, lbs. | 13½ | 19 | 25 | 30 |
| Per dozen | $7 00 | 9.00 | 11 00 | 15 00 |

# WATER COOLERS.

Japanned. Assorted Colors.

Nickel-Plated Faucet. Galvanized Reservoir.

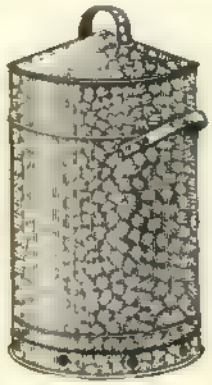
| Nos. | 02 | 03 | 04 | 06 | 08 | 010 |
|---|---|---|---|---|---|---|
| Capacity, gallons | 2 | 3 | 4 | 6 | 8 | 10 |
| Weight, lbs. | 6 | 9 | 12 | 14½ | 22 | 25 |
| Each | $5 00 | 6 00 | 7 00 | 8 00 | 9 00 | 10 00 |

Nicke -Plated Faucet. White Enameled Seamless Reservoir. Solid Filled Walls of Charcoal.

| Nos. | 22 | 33 | 44 | 66 | 88 | 1010 |
|---|---|---|---|---|---|---|
| Capacity, gallons | 2 | 3 | 4 | 6 | 8 | 10 |
| Weight, lbs. | 7½ | 10¾ | 12¾ | 19 | 27 | 30 |
| Each | $6 00 | 8 50 | 10 00 | 13 00 | 16 50 | 18.00 |

One in case.

# ASH BARRELS.



Heavy. Galvanized.

| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Size, inch | 19x13 | 21x14 | 25x15 | 27x18½ |
| Weight, lbs. | 8 | 10 | 12 | 16 |
| Each | $2 50 | 3.50 | 4 50 | 5.50 |

# BUCKETS.

## WELL.

Galvanized. Straight Sides. Twist Bail.

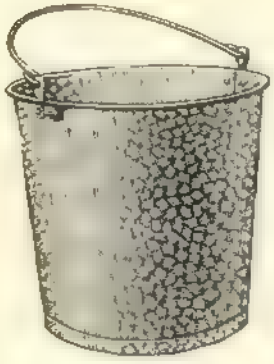
| Nos. | 101 | 121 | 141 |
|---|---|---|---|
| Capacity, quarts | 10 | 12 | 14 |
| Weight, lbs. | 29 | 31 | 37 |
| Per dozen | $10.00 | 11 00 | 12 00 |

One-half dozen in bundle.

Wood. Wrought Ear. Twist Bail. Four Hoops.

| Nos. | 3 | 5 |
|---|---|---|
| Capacity, quarts | 3 | 5 |
| Weight, lbs. | 78 | 144 |
| Per dozen | $12.00 | 20 00 |

SHIP.



## SHIP.

Extra Heavy. Galvanized. Straight. With Rim on Bottom.

| Nos. | 512 | 514 |
|---|---|---|
| Capacity, quarts | 12 | 14 |
| Weight, lbs. | 40 | 45 |
| Per dozen | $10.00 | 11.50 |

One-half dozen in bundle.

FIRE.

## FIRE.

Heavy. Galvanized. Round Bottom.

| No. | 212 |
|---|---|
| Capacity, quarts | 12 |
| Weight, lbs. | 28 |
| Per dozen | $10.00 |

One dozen in bundle.

## WATER.

Straight. Galvanized

| Nos. | 8 | 10 | 12 | 14 |
|---|---|---|---|---|
| Capacity, quarts | 8 | 10 | 12 | 14 |
| Weight, lbs. | 24 | 26 | 28 | 30 |
| Per dozen | $6 00 | 7 00 | 8 00 | 9.00 |

## STOCK.

Heavy. Flaring. Galvanized.

| Nos. | 112 | 114 | 116 | 118 | 120 |
|---|---|---|---|---|---|
| Capacity, quarts | 12 | 14 | 16 | 18 | 20 |
| Weight, lbs. | 30 | 34 | 37 | 40 | 42 |
| Per dozen | $9 00 | 10.50 | 12 00 | 13 50 | 15.00 |

One dozen in bundle.

# Miners' Lamps.

## Clanny Safety.

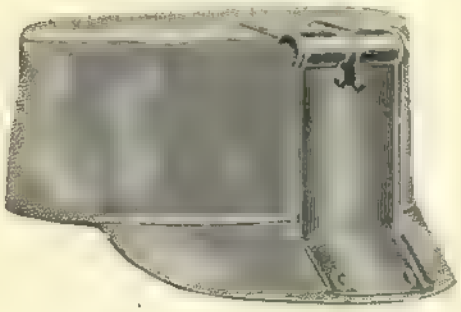
## Double Tube.

**Clanny Safety**—Bonneted Regulation Safety Lamp, Weight Each, 2 lbs. . . . . Each, $5 00

### Miners' Hat Lamps, Tin, Solid Hinged Top.

**No. 40**—Double Tube Miners', Weight per Dozen, 4 lbs . . . . . Per Dozen, $2 50
**No. 150** " " " " " " 4½ " . . . . . " " 2 75
**No. 5** " " Drivers' " " " 5 " . . . . . " " 3 00

One Dozen in a Box.



# Miners' Duck Cap.

With Patent Tin Fixture, which Sets Well Away from the Band and Rests Easily on the Head

**No. 3**—White Duck, Assorted Sizes. . . . . Per Dozen, $5 00

Packed as Ordered

# Miners' Candlesticks.

## California.

**California**—Cast Steel Length 11 in., Weight per Dozen, 6 lbs. . . . . Per Dozen, $7 50

One Dozen in a Box

## Ideal.

**Ideal**—Cast Steel, Length, 12 in., Weight per Dozen, 6½ lbs. . . . . Per Dozen, $7 00

One Dozen in a Box

# Candles.

## Adamantine.

**12 Oz.**—6s, 20 Set in a Box, Wt. per Box, 18 lbs. Per Set, 9
**14 Oz.**—6s, 20 " " " 21 " " "
**14 Oz.**—6s, 40 " " 47 " " "

## Stearic Wax.

**14 Oz.**—6s, 20 Set in a Box, Wt. per Box, 21 lbs. Per Set, 9
**14 Oz.** 6s, 40 " " " 41 " " "
**16 Oz.**—6s, 40 " " " 47 " " "

# Colt's Double Action Revolvers.

Note—2½ and 3½ in. barrels are without ejectors, 4½, 5 and 6 in. barrels with ejectors as cut above, unless otherwise ordered.

Case-hardened frames, black rubber stocks, 6 shots.

**Colt's Double Action**—Nickel Plated or Blue Finish, Length of Barrel 2½, 3½, 4½, 5 and 6 in., 38 Caliber, Center Fire.....Each, $14 00

**Colt's Double Action**—Nickel Plated or Blue Finish, Length of Barrel 2½, 3½, 4, 5 and 6 in., 41 Caliber, Center Fire.....Each, 15 00

Pearl Stocks, add $6.00; Ivory Stocks, add $6.00

Weight each, 3½ in., 1 lb. 6 oz.; 4½ in., 1 lb. 7 oz.; 5 in., 1 lb. 9 oz., 6 in., 1 lb. 11 oz.

For Component Parts see Page 1105.

# Colt's New Police Target Revolver.

Double action, jointless, solid frame, simultaneous ejection, swing-out cylinder, six shots, with special target sights.

This model is made to take the following cartridges: .32 long and short Colt for which the revolver is stamped on barrel, "Colt D. A. .32," and unless otherwise ordered it will be furnished for these cartridges.

It can also be supplied for the .32 Colt New Police (special cartridge), for which it is stamped on barrel, "Colt New Police 32," and when so chambered it will also take the 32 S. & W. long and short, inside lubricant, and 32 S. & W. long and short with self lubricating bullets.

**Colt's New Police Target**—Blue Frame and Barrel, Length of Barrel 6 in., Rubber Stocks, Weight, 19 oz.....Each, $20 00

Pearl Stocks, add $6.00; Ivory Stocks, add $6.00. For Extra Parts see New Police.

For Component Parts see Page 1104.

# Colt's D. A. Army and Frontier Revolver.

This model is made to take the following cartridges: .38 short and long, .41 short and long, .32-20, 38-40, .44-40, Frontier, .45 Colt's. Blued or full nickel-plated. Rubber stocks.

| | | |
|---|---|---|
| Length of Barrels, with Ejector, 4¾, 5½ and 7½ in | Each, | $20 00 |
| Length of Barrels, Without Ejector, 3½ and 4 in. | " | 20 00 |

Pearl Stocks, add $7.00 list; Ivory Stocks, add $7.
Weight each, 4¾ in. Barrel, 2 lbs. 5 oz.; 5½ in., 2 lbs. 6 oz.; 7½ in., 2 lbs. 7 oz.

For Component Parts see Page 1106

# Colt's Automatic Pistol.

## Browning Patent, .38 Caliber.

HALF SIZE.

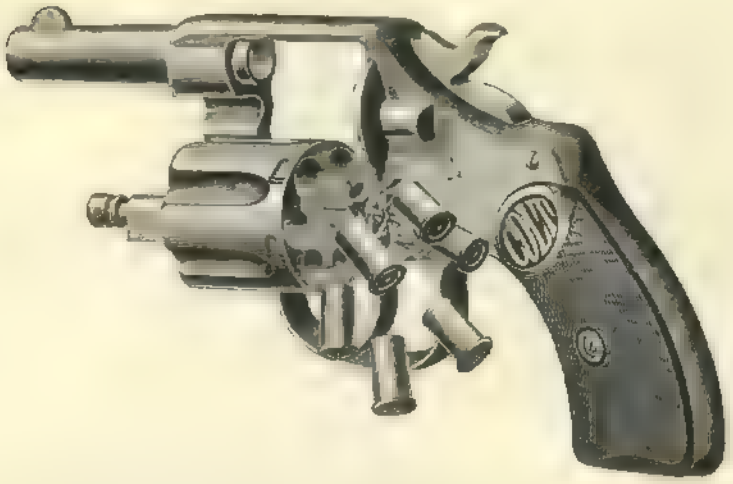
The magazine of the Colt's Automatic Pistol can be loaded with any number of cartridges from one to seven its full capacity being seven. The charged magazine is inserted into the handle, the slide is drawn once to the rear by hand. This movement cocks the hammer and when the slide is in this position the magazine follower and follow spring raise the topmost cartridge so as to bring it into the path of the bolt. The slide on being released is carried forward by the retraction spring and during this movement the bolt places the cartridge in the chamber.

The action of the pistol is automatic excepting that the trigger is pulled for firing each shot. The arm can be discharged at the rate of five shots per second, the cartridges being automatically supplied from the detachable magazine, inserted in the handle. On pulling the trigger, the cartridge is fired, the empty shell extracted, and a new cartridge is loaded into the chamber. All these operations are effected by the recoil after firing the first cartridge.

Length of Barrel, 6 in., Length of Pistol over all, 9 in., Weight, 35 oz., made only in .38 Caliber Each, $30 00

# Colt's Double Action Revolvers.

## Colt's New Pocket.

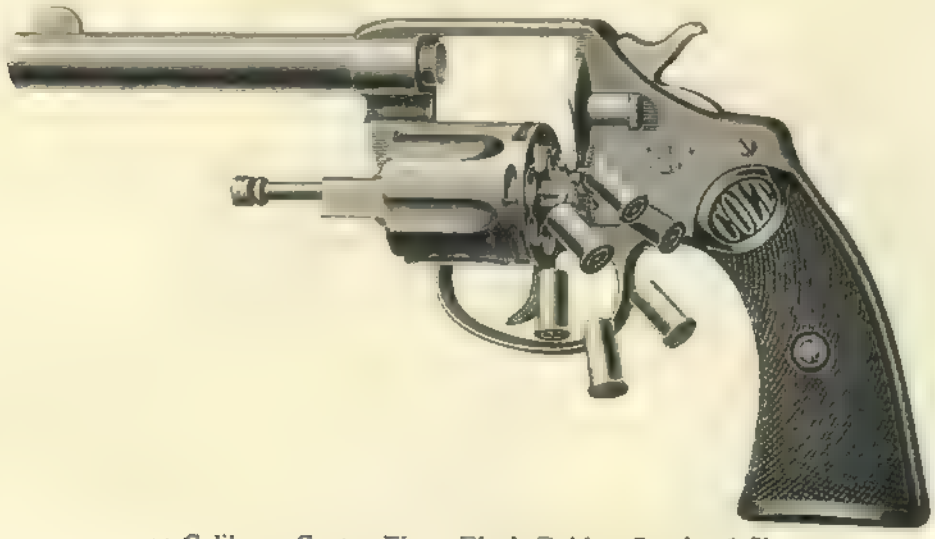


**.32 Caliber. Center Fire. Black Rubber Stocks, 6 Shots.**

| | | |
|---|---|---|
| 2½ in. Barrel, Nickel Plated or Blue Finish, Weight Each, 15 oz | Each. | $14 00 |
| 3½ " " " " " " " " 16 " | " | 14 00 |

Pearl Stocks, add $3 00; Ivory Stocks, add $3 00.

## Colt's New Police.



**.32 Caliber. Center Fire. Black Rubber Stocks, 6 Shots.**

32 caliber, short or long Colt's cartridge, .32 caliber Colt's new police cartridges. Specify cartridge desired.

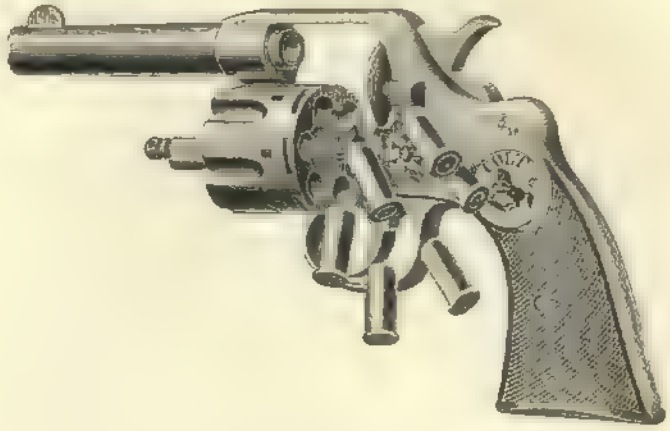
| | | |
|---|---|---|
| 2½ in. Barrel, Nickel Plated or Blue Finish. Weight Each 15 oz | Each. | $16 00 |
| 4 " " " " " " " " 18 " | " | 16 00 |
| 6 " " " " " " " " 20 " | " | 16 00 |

Pearl Stocks, add $6 00 list; Ivory Stocks, add $6.00 list.

For Component Parts see Page 1104.

# Colt's New Army Double Action Revolver.

## Side Ejector.



Six Shots.

The cartridges adapted to this arm are: .38 long Colt's, .38 short Colt's, .41 long D. A. Colt's, .41 short D. A. Colt's.
This revolver will not be furnished to take other cartridges than those mentioned.

**Colt's New Army** -Length of Barrels, 3, 4½ and 6 in., Blued Frame and Barrel or Full Nickel Plated, Rubber Stocks.....Each, $18 00

Weight each, 3 in. Barrel, 1 lb. 14 oz.; 4½ in., 2 lbs.; 6 in., 2 lbs. 1 oz
Pearl Stocks, add $9 00 list. Ivory Stocks, add $8 00 list.

# Colt's New Service Double Action Revolver.

## Side Ejector.

Six Shots.

Double action, jointless, solid frame, simultaneous ejection, swing-out cylinder.
This model is made to take the following cartridges: .38-40, 44-40, .44 Russian, .45 Colt, .450 Eley, .455 Eley, .476 Eley

**Colt's New Service**—Length of Barrel, 4½, 5½ or 7½ in., Finish, Blued or Full Nickel Plate, Rubber Stocks . . . . . Each, $21 00

Weight each, 4½ in. Barrel, 2 lbs. 1 oz.; 5½ in., 2 lbs. 3 oz.; 7½ in., 2 lbs. 6 oz.
Pearl Stocks, add $9.00; Ivory Stocks, add $7.50
For Component Parts see Page 1103

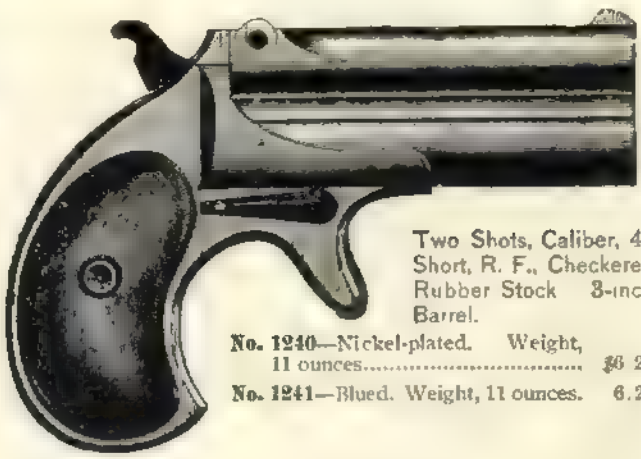
# DERRINGERS.

## COLT'S.

Caliber, 41 Short, Rim Fire.
2½-inch Barrel

**No. 1140**—Nickel-plated. Weight, 10 ounces .. ...Each, $4 00
**No. 1141**—Blued. Weight, 10 ounces . " 4 00

## REMINGTON.



Two Shots, Caliber, 41 Short, R. F., Checkered Rubber Stock 3-inch Barrel.

**No. 1240**—Nickel-plated. Weight, 11 ounces..... $6 25
**No. 1241**—Blued. Weight, 11 ounces. 6.25

# REPEATING PISTOLS.

## COLT'S AUTOMATIC.

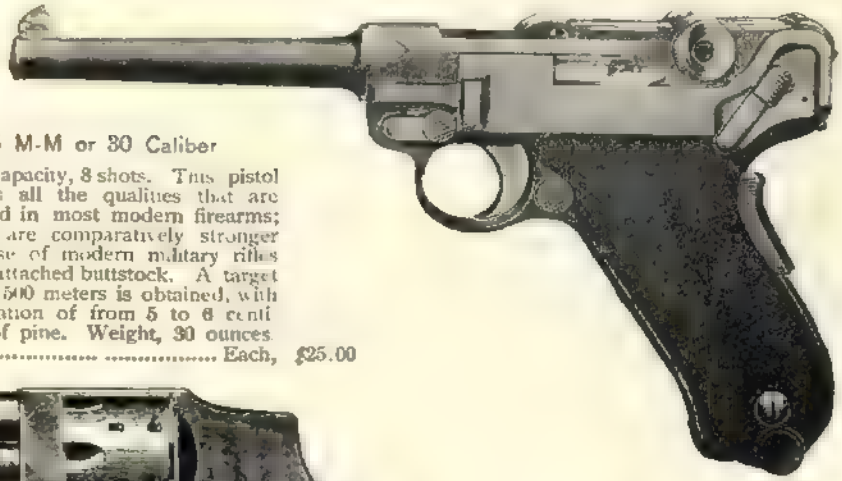
Caliber, 38 Rimless, Smokeless

**No. 1138**—Capacity, 7 shots. The action of this pistol is automatic, excepting that the trigger is pulled back before firing each shot; on pulling the trigger the cartridge is fired, the empty shell extracted and a new cartridge loaded into the chamber. Full length of pistol, 9 inches. Length of barrel, 6 inches. Blued. Weight, 35 ounces .....Each, $20.00

HALF SIZE.

No. 1138.

## LUGER U. S. A. AUTOMATIC.



7-65 M-M or 30 Caliber

**No. 1130**—Capacity, 8 shots. This pistol possesses all the qualities that are demanded in most modern firearms; its parts are comparatively stronger than those of modern military rifles with the attached buttstock. A target range of 500 meters is obtained, with a penetration of from 5 to 6 centimeters of pine. Weight, 30 ounces ..... Each, $25.00

No. 1130.

Nos. 645 to 648.

# REVOLVERS.

## BABY HAMMERLESS.

| | Caliber. | Length of Barrel. | Stock. | Each |
|---|---|---|---|---|
| No. 645— | 22, | 1¾ inch, | rubber.. | $4 00 |
| No. 646— | 22, | 1¾ " | pearl | 5 00 |
| No. 647— | 32, | 1¾ " | rubber | 5 00 |
| No. 648— | 32 | 1¾ " | pearl | 7.00 |

Weight, 6 to 12 ounces, according to length.

PACIFIC HARDWARE & STEEL COMPANY

# COLT'S REVOLVERS.

## DOUBLE ACTION ARMY AND FRONTIER.

Six Shots, Jointless, Solid Frame, Rod Ejection, Blued only Rubber Stocks.

| | Caliber. | Length of barrel. | Each. |
|---|---|---|---|
| No. 150 | 32-20 | 4½ inch | $18 00 |
| No. 151 | 32-20 | 5½ " | 18 00 |
| No. 152 | 32-20 | 7½ " | 18 00 |
| No. 153 | 38-40 | 4¾ " | 18 00 |
| No. 154 | 38-40 | 5½ " | 18 00 |
| No. 155 | 38-40 | 7½ " | 18 00 |
| No. 156 | 41 Colt | 4¾ " | 18 00 |
| No. 157 | 41 " | 5½ " | 18 00 |
| No. 158 | 41 Colt | 7½ inch | $18 00 |
| No. 159 | 44-40 | 4¾ " | 18 00 |
| No. 160 | 44-40 | 5½ " | 18 00 |
| No. 161 | 44-40 | 7½ " | 18 00 |
| No. 162 | 45 Colt | 4¾ " | 18 00 |
| No. 163 | 45 " | 5½ " | 18 00 |
| No. 164 | 45 " | 7½ " | 18 00 |

Weight, 30 to 39 ounces, according to length

## SINGLE ACTION ARMY AND FRONTIER.

Six Shots, Jointless. Solid Frame, Rod Ejection, Blued only, Rubber Stocks.

| | Caliber. | Length of barrel. | Each. |
|---|---|---|---|
| No. 170 | 32-20 | 4½ inch | $16.00 |
| No. 171 | 32-20 | 5½ " | 16 00 |
| No. 172 | 32-20 | 7½ " | 16 00 |
| No. 173 | 38-40 | 4¾ " | 16 00 |
| No. 174 | 38-40 | 5½ " | 16 00 |
| No. 175 | 38-40 | 7½ " | 16 00 |
| No. 176 | 41 Colt | 4¾ " | 16 00 |
| No. 177 | 41 " | 5½ " | 16 00 |
| No. 178 | 41 Colt | 7½ inch | $16.00 |
| No. 179 | 44-40 | 4¾ " | 16 00 |
| No. 180 | 44-40 | 5½ " | 16 00 |
| No. 181 | 44-40 | 7½ " | 16 00 |
| No. 182 | 45 Colt | 4¾ " | 16 00 |
| No. 183 | 45 " | 5½ " | 16.00 |
| No. 184 | 45 " | 7½ " | 16.00 |

Weight, 32 to 40 ounces, according to length.

## SINGLE ACTION BISLEY.

Six Shots, Jointless, Solid Frame, Rod Ejection, Blued only, Rubber Stocks.

| | Caliber. | Length of barrel. | Each. |
|---|---|---|---|
| No. 190 | 32-20 | 4½ inch | $16.00 |
| No. 191 | 32-20 | 5½ " | 16.00 |
| No. 192 | 32-20 | 7½ " | 16 00 |
| No. 193 | 38-40 | 4¾ " | 16 00 |
| No. 194 | 38-40 | 5½ " | 16 00 |
| No. 195 | 38-40 | 7½ " | 16 00 |
| No. 196 | 41 Colt | 4¾ " | 16 00 |
| No. 197 | 41 " | 5½ " | 16 00 |
| No. 198 | 41 Colt | 7½ inch | $16 00 |
| No. 199 | 44-40 | 4¾ " | 16.00 |
| No. 200 | 44-40 | 5½ " | 16.00 |
| No. 201 | 44-40 | 7½ " | 16 00 |
| No. 202 | 45 Colt | 4¾ " | 16 00 |
| No. 203 | 45 " | 5½ " | 16.00 |
| No. 204 | 45 " | 7½ " | 16.00 |

Weight, 32 to 40 ounces, according to length.

## NEW POLICE TARGET, DOUBLE ACTION.

Six Shots, Solid Frame, Simultaneous Ejection. Swing-out Cylinder, Blued only, Rubber Stocks, Special Target Sights.

| | Caliber. | Length of barrel. | Each. |
|---|---|---|---|
| No. 205 | 32 Long and Short | 6 inch | $18 00 |

Weight, 19 ounces.

## SPECIAL TARGET, BISLEY MODEL, SINGLE ACTION.

Six Shots, Jointless, Solid Frame, Rod Ejection, Blued only, Rubber Stocks, Special Target Sights.

| | Caliber. | Length of barrel. | Each. |
|---|---|---|---|
| No. 208 | 44 S. & W. | 7½ inch | $25 00 |

Weight, about 40 ounces.

## NEW SERVICE TARGET, DOUBLE ACTION.

Six Shots, Jointless, Solid Frame, Simultaneous Ejection, Swing-out Cylinder, Blued only, Rubber Stocks, Special Target Sights.

| | Caliber. | Length of barrel | |
|---|---|---|---|
| No. 210 | 44 Russian | 7½ inch | Each, $25.00 |

Weight, about 40 ounces

# COLT'S REPEATING RIFLES.

New Lightning. 22 Caliber, Rim Fire.

The Rifle will take all long or all short 22 caliber cartridges, or a part long and a part short.

Length of barrel, 24 inches, number of shots 15, 22 long or 16, 22 short cartridges. Weight, round barrel, 6 lbs.; octagon barrel, 5¾ lbs.

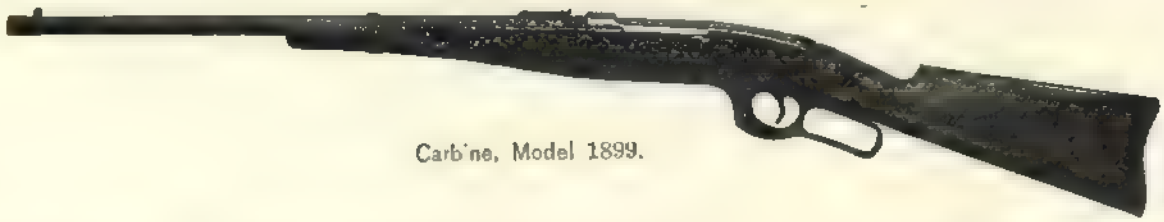
**No. 95**—Octagon barrel.....Each, $16.00

# SAVAGE ARMS CO. REPEATING RIFLES.

## SAVAGE HAMMERLESS SPORTING.

303 Caliber

Full Octagon Barrel, Model 1899.



Carbine, Model 1899.

The Savage rifle is made in round, half-octagon and full octagon barrel, standard length of barrel for sporting rifle, 26 inches; of carbine, 20 inches. This rifle possesses simplicity, strength and ease of manipulation, combined with excellent material and workmanship.

### PRICE LIST OF SAVAGE RIFLES

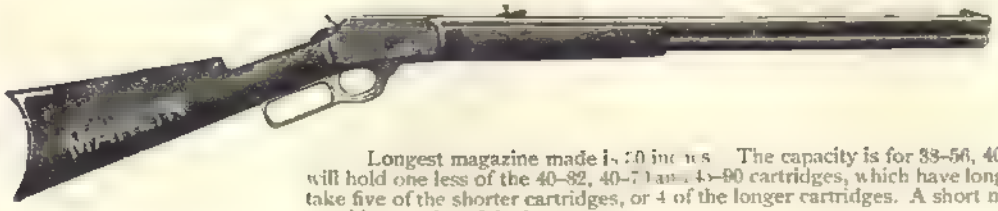
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **No. 303 R**—Round barrel, | 26-inch, | weight about | 7¼ | pounds, | 6 | shots | Each, $20.00 |
| **No. 303 H** Half-octagon, | 26 " | " | 7½ | " | 6 | " | 21 50 |
| **No. 303 F**—Full " | 26 " | " | 8 | " | 6 | " | 21 50 |
| **No. 303 C**—Carbine-round, | 20 " | " | 7¼ | " | 6 | " | " 20 00 |

Savage Rifles can be furnished to take the 30–30 cartridge if so ordered.

PACIFIC HARDWARE & STEEL COMPANY

# MARLIN REPEATING RIFLES.

## MODEL 1895.



All Barrels in this Model are made of Special Smokeless Steel

Longest magazine made is 30 inches. The capacity is for 38-56, 40-65 or 45-70 cartridges. A magazine will hold one less of the 40-82, 40-70 and 45-90 cartridges, which have longer shells. The half-magazine rifle will take five of the shorter cartridges, or 4 of the longer cartridges. A short magazine rifle will take 3 of the shorter cartridges and 3 of the longer ones.

| No. | Caliber. | Length of Barrel. | Style of Barrel. | Weight. | Shots. | Each. |
|---|---|---|---|---|---|---|
| 4075 | 38-56 | 26-inch | Octagon | 8¼ lbs. | 9 | $18 25 |
| 4076 | 40-65 | 26 " | " | 8¼ " | 9 | 18 25 |
| 4077 | 40-70 | 26 " | " | 8¼ " | 9 | 18 25 |
| 4078 | 40-82 | 26 " | " | 8¼ " | 9 | 18 25 |
| 4079 | 45-70 | 26 " | Round | 8¼ " | 9 | 16 90 |
| 4080 | 45-70 | 26 " | Octagon | 8¼ " | 9 | 18 25 |
| 4081 | 45-90 | 26 " | Round | 8¼ " | 9 | 16 90 |
| 4082 | 45-90 | 26 " | Octagon | 8¼ " | 9 | 18 25 |

Set Triggers cannot be furnished on Marlin Rifles.

# EXTRAS FOR MARLIN REPEATING RIFLES.

| | Models 1892 and 1894. | Model 1895. |
|---|---|---|
| The extra price for take down on any rifle | $ 4.00 | $ 4.35 |
| The price of an extra barrel part complete | 12 00 | 12.00 |
| " " " " with plain checking on forearm | 13 00 | 13 00 |
| " " " " " selected walnut forearm and B checking | 16.00 | 16.00 |
| " " " " " extra selected walnut forearm and special checking | 18 00 | 18 00 |

## MODELS 1892, 1893, 1894 AND 1895.

| | '92 '93 and '94. | '95. |
|---|---|---|
| Selected Straight Grip Stock and Fore-end | $ 4 50 | $ 5 20 |
| " " " " " " finely checked | 7 50 | 9 00 |
| Selected Pistol Grip Stock and Fore-end | 7.50 | 9.00 |
| " " " " " " finely checked | 11.20 | 13.00 |
| Extra Selected Pistol Grip Stock and Fore-end, extra checked and extra finish | 14.85 | 17.50 |
| Plain Walnut Pistol Grip Stock and Fore-end, checked | 4 00 | 4.35 |
| Shortening or Lengthening Butt-stock or Changing Drop | 7 50 | 7 50 |
| Swivels and Sling Strap (leather) | 1 20 | 1 20 |
| Nickel-plated Trimmings | 2 00 | 2 30 |
| Full Nickel Plating | 3 00 | 3 50 |

| | '92 '93 and '94. | '95 |
|---|---|---|
| Silver-plated Trimmings | $ 3 00 | $3.50 |
| Canvas Cover, leather bound | 1 40 | 1 40 |
| Full Silver Plating | 6 75 | 7 80 |
| Gold-plated Trimmings | 7 75 | 8 75 |
| Full Gold Plating | 15 20 | 17.35 |
| Leaving off Rear Sight Slot or changing its position | 75 | 1 00 |
| Matted Barrels | 3 75 | 4 35 |
| Engraving No. 1 | 4 00 | 4 40 |
| " " 2 | 8 00 | 8 80 |
| " " 3 | 12 00 | 13 20 |
| " " 5 | 20 00 | 22 00 |
| " " 10 | 40 00 | 44 00 |
| " " 15 | 60 00 | 66 00 |
| Case-hardening Receiver (model 1892) | .75 | |

## MODEL 1897, 22 CALIBER.

| | |
|---|---|
| Selected Straight Grip Stock and Fore-end | $ 4 55 |
| " " " " " " finely checked | 7 50 |
| " Pistol Grip Stock and Fore-end | 7 50 |
| " " " " " " finely checked | 11 15 |
| Extra Selected Pistol Grip Stock and Fore-end, extra checked and extra finish | 15 25 |
| Plain Walnut Pistol Grip Stock and Fore-end, checked | 4 00 |
| Shortening or Lengthening Butt-stock or changing drop | 7 50 |
| Swivels and Sling Strap (leather) | 1 25 |
| Nickel-plated Trimmings | 2 60 |
| Full Nickel Plating | 3 15 |
| Canvas Cover, leather bound | 1 40 |

| | |
|---|---|
| Silver-plated Trimmings | $ 3 0 |
| Full Silver Plating | 6 85 |
| Gold-plated Trimmings | 7 90 |
| Full Gold Plating | 15.75 |
| Leaving off Rear Sight Slot or changing its position | 1 00 |
| Matted Barrels | 4.00 |
| Engraving No. 1 | 4.20 |
| " " 2 | 8.40 |
| " " 3 | 12 60 |
| " " 5 | 21 00 |
| " " 10 | 42 00 |
| " " 15 | 63.00 |

# SMITH & WESSON REVOLVERS.

## 32 AND 38 MILITARY MODEL 1899.

Six Shots, Double Action, Swing-out Cylinder, Rubber Stocks.

| Caliber. | Length of Barrel. | Each. |
|---|---|---|
| No. 300—32 W. C. F., | nickel, 4 inch | $15 75 |
| No. 301—32 " | blued, 4 " | 15 75 |
| No. 302—32 " | nickel, 5 " | 16 00 |
| No. 303—32 " | blued, 5 " | 16 00 |
| No. 304—32 " | nickel, 6½" | 16 50 |
| No. 305—32 " | blued, 6½" | 16 50 |
| No. 306—38 | nickel, 4 " | 15 75 |
| No. 307—38 | blued, 4 " | 15 75 |
| No. 308—38 | nickel, 5 " | 16 00 |
| No. 309—38 | blued, 5 " | 16 00 |
| No. 310—38 | nickel, 6½" | 16 50 |
| No. 311—38 | blued, 6½" | 16 50 |

Weights, 4 inch, 1 lb., 13¼ ounces; 5 inch, 1 lb., 14 ounces; 6½ inch, 1 lb., 15¼ ounces

## 44 DOUBLE ACTION. FRONTIER OR RUSSIAN MODEL.

Six Shots, Automatic Shell Extractor, Rubber Stocks

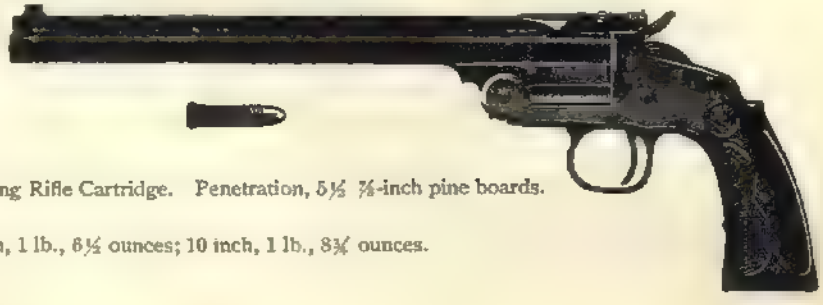
| Caliber. | Length of Barrel. | Each |
|---|---|---|
| No. 320—44, nickel, | 4 inch | $15 75 |
| No. 321—44, blued, | 4 " | 15 75 |
| No. 322—44, nickel, | 5 " | 16 00 |
| No. 323—44, blued, | 5 " | 16 00 |
| No. 324—44, nickel, | 6½" | 16 50 |
| No. 325—44, blued, | 6½" | 16 50 |

Weights, 4 inch, 2 lbs., 2¼ ounces; 5 inch, 2 lbs., 3½ ounces; 6½ inch; 2 lbs., 5½ ounces.

## SINGLE SHOT TARGET PISTOL.

With Automatic Shell Extractor, Rebounding Lock, Adjustable Target Sights, Rubber Target Stocks, Blued Only.

| | | |
|---|---|---|
| No. 330— | 6-inch barrel | Each, $15 00 |
| No. 331— | 8 " " | " 16 00 |
| No. 332— | 10 " " | " 17.00 |



The ammunition adapted to this arm is the .22 Long Rifle Cartridge. Penetration, 5½ ⅞-inch pine boards.

Weights, 6 inch, 1 lb., 4¾ ounces; 8 inch, 1 lb., 6½ ounces; 10 inch, 1 lb., 8¾ ounces.

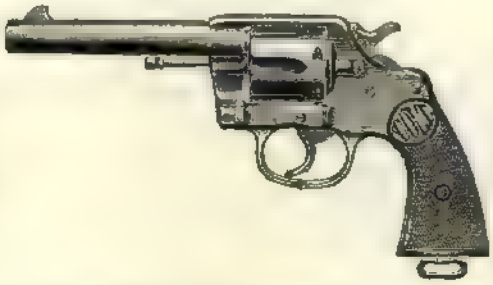
# COLT'S REVOLVERS.

## NEW SERVICE, DOUBLE ACTION.

Six Shots, Jointless Solid Frame, Simultaneous Ejection, Swing-out Cylinder, Rubber Stocks.

| | Caliber. | Length of barrel. | Each. | | Caliber. | Length of barrel | Each. |
|---|---|---|---|---|---|---|---|
| **No. 100**— | 38-40, blued .. | 4½ inch | $19 00 | **No. 104**— | 44-40, blued ... | 4½ inch... | $19 00 |
| **No. 101**— | 38-40 " | ...5½ " | . . 19 00 | **No. 105**— | 44-40 " | . 5½ " | ... 19 00 |
| **No. 102**— | 38-40 " | ..7½ " | ... 19 00 | **No. 106**— | 44-40 " | ...7½ " | ... 19.00 |

Weight, 32 to 38 ounces, according to length.



## NEW NAVY, DOUBLE ACTION.

Adapted to 38 Short and Long Colt's and 41 Short and Long Colt's.

Six Shots, Jointless, Solid Frame, Simultaneous Ejection, Swing-out Cylinder, Rubber Stocks.

| | Caliber. | Length of barrel. | Each. | | Caliber. | Length of barrel | Each. |
|---|---|---|---|---|---|---|---|
| **No. 110**— | 38, nickel.. | ...3 inch. | ....$16 00 | **No. 116**— | 41, nickel... | 3 inch... | . $16 00 |
| **No. 111**— | 38, blued..... | 3 " | ..... 16 00 | **No. 117**— | 41, blued | ...3 " | ..... 16 00 |
| **No. 112**— | 38, nickel.... | 4½ " | ..... 16.00 | **No. 118**— | 41, nickel..... | 4½ " | . .. 16 00 |
| **No. 113**— | 38, blued .. | .4½ " | ..... 16 00 | **No. 119**— | 41, blued ... | 4½ " | ..... 16 00 |
| **No. 114**— | 38, nickel.. | 6 " | ..... 16 00 | **No. 120**— | 41, nickel.. | ..6 " | . ... 16.00 |
| **No. 115**— | 38, blued.. | ..6 " | . . 16 00 | **No. 121**— | 41, blued..... | 6 " | ..... 16 00 |

Weight, 26 to 35 ounces, according to length.

## NEW POCKET, DOUBLE ACTION.

Six Shots, Jointless, Solid Frame, Simultaneous Ejection, Swing-out Cylinder, Rubber Stocks. Will Shoot 32 Long and Short.

| | Caliber | Length of barrel | Each. | | Caliber | Length of barrel. | Each. |
|---|---|---|---|---|---|---|---|
| **No. 122**— | 32, nickel..... | 2½ inch | ....$14.00 | **No. 125**— | 32, blued.. | 3½ inch | ... $14 00 |
| **No. 123**— | 32, blued.... | 2½ " | . .. 14 00 | **No. 126**— | 32, nickel.. | 6 " | ..... 14 00 |
| **No. 124**— | 32, nickel..... | 3½ " | .... . 14 00 | **No. 127**— | 32, blued. . | 6 " | . .... 14 00 |

Weight, 14 to 20 ounces, according to length.

## NEW POLICE, DOUBLE ACTION.

Six Shots, Jointless, Solid Frame, Simultaneous Ejection, Swing-out Cylinder, Rubber Stocks. Will Shoot 32 Long and Short and 32 New Police Special

| | Caliber. | Length of barrel. | Each. | | Caliber. | Length of barrel. | Each |
|---|---|---|---|---|---|---|---|
| **No. 130**— | 32, nickel. | 2½ inch..... | $15 00 | **No. 133**— | 32, blued .... | 4 inch .. . | ..$15 00 |
| **No. 131**— | 32, blued. .. | 2½ " | ..... 15 00 | **No. 134**— | 32, nickel.. | 6 " | ..... 15.00 |
| **No. 132**— | 32, nickel.... | 4 " | ..... 15 00 | **No. 135**— | 32, blued..... | 6 " | .. .... 15.00 |

Weight, 14 to 20 ounces, according to length.

## DOUBLE ACTION, WITH EJECTOR.

Six Shots, Jointless, Solid Frame, Rod Ejection, Rubber Stocks. Will Shoot 38 Long and Short or 41 Long and Short.

| | Caliber. | Length of barrel. | Each | | Caliber | Length of barrel. | Each. |
|---|---|---|---|---|---|---|---|
| **No. 140**— | 38, nickel... | 4½ inch..... | .$14 00 | **No. 144**— | 41, nickel..... | 4½ inch..... | $15 00 |
| **No. 141**— | 38, blued | ...4½ " | . ... 14 00 | **No. 145**— | 41, blued..... | 4½ " | ..... 15 00 |
| **No. 142**— | 38, nickel.. | ..6 " | ..... 14 00 | **No. 146**— | 41, nickel.. | ..6 " | ..... 15 00 |
| **No. 143**— | 38, blued .... | 6 " | ..... 14 00 | **No. 147**— | 41, blued..... | 6 " | . .. 15.00 |

Weight, 25 to 27 ounces, according to length.

## DOUBLE ACTION, WITHOUT EJECTOR.

Six Shots, Jointless, Solid Frame, Rubber Stocks. Will Shoot 38 Long and Short or 41 Long and Short.

| | Caliber. | Length of barrel. | Each. | | Caliber. | Length of barrel. | Each. |
|---|---|---|---|---|---|---|---|
| **No. 165** | 38 blued. | ...2½ inch | ...$14 00 | **No. 167**— | 41, blued..... | 2½ inch | ..$15.00 |
| **No. 166**— | 38, " | .....4½ " | ..... 14.00 | **No. 168**— | 41, " | .....4½ " | ..... 15.00 |

Weight, 21 to 25 ounces, according to length.

PACIFIC HARDWARE & STEEL COMPANY

# IMPROVED PYROMETERS.

HORIZONTAL.

VERTICAL.

## IRON CASE.

Fig. 154.

The different expansion of metals under heat is transferred by a movement to a pointer, which indicates the temperature on a correctly adjusted dial.

The metal of the expansion stem, also the length of the same, is varied to adapt the pyrometer to all conditions. For bakers and japan ovens the pyrometer is screwed into a cast-iron box plate, set in the side or front wall of the oven. In oil and hot-air pipes the pyrometer may be inserted in end, side or top of same, with expansion stem wholly or partially in the hot vapor or gas, the opening to be tapped with ¼-inch pipe thread.

For Temperature Up to 800 Degrees Fahrenheit.

**Figs. 154** and **155**—Diameter of dial, 5½ inches. Weight, 8 lbs..... Each, $26 00
**Figs. 154** " **155**— " " " 7 " " " 11 " ..... " 30 00

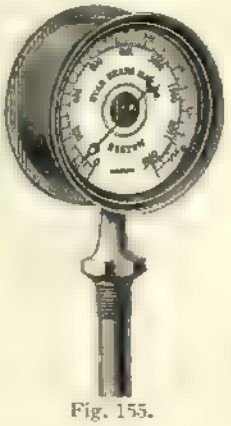


Fig. 155.

# MARINE AND ENGINE-ROOM CLOCKS.

## BRASS CASE.

### SETH THOMAS MOVEMENT

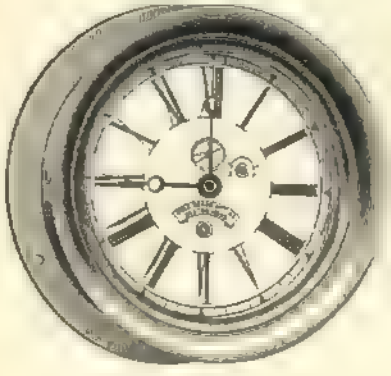


Fig. 150.

These clocks are designed especially for marine engines, engine rooms, locomotives, yachts, etc.; in fact, for all places where a pendulum clock cannot be used on account of the vibration, and yet quite accurate time is required.

| | | | |
|---|---|---|---|
| **Fig. 150**—Diameter of dial, inch.. | 6 | 6¼ | 8½ |
| Weight, lbs | 12 | 15 | 19 |
| Each. | $40.00 | 45.00 | 55.00 |

# PRESSURE RECORDING GAUGES.

## HIGHLY JAPANNED IRON CASE.

These gauges are adapted for recording the pressure of steam, water, gas or air, and may be placed near the boiler or at any distance therefrom—for instance, in the office—always giving a true record of the fluctuations of pressure taking place in boiler, water and gas pipes, etc. They are made for all pressures. Gauges and charts for the following pressures are kept in stock.

For steam, gas and air—25, 50, 75, 150, 200 lbs. per square inch.

For water—100, 200, 300 feet of water column.

Hinged brass cover and lock. Including 100 charts. Weight, 18 lbs.....Each, $50.00
Additional charts.....Per hundred, .75
Recording ink.....Per bottle, .25

Fig. 153.

PACIFIC HARDWARE & STEEL COMPANY

# GAUGES.

Fig 142. Vacuum.

### SPRINGS OF SOLID DRAWN TUBE.

A syphon should be used, so that nothing but water will enter the tube. No gauge warranted unless connected with a syphon.

### PRICES INCLUDE COCK

When ordering gauges, please state maximum working pressure. All gauges are graduated from an open column of mercury, subjected to an actual steam test, warranted correct.

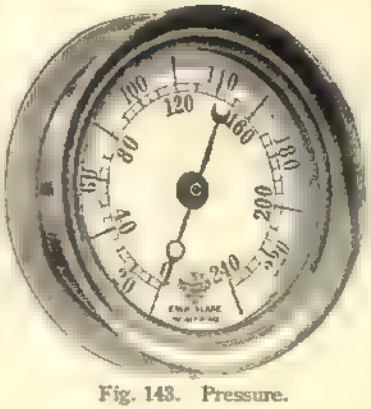


Fig. 143. Pressure.

## BOURDON, SINGLE SPRING PRESSURE AND VACUUM.

Figures 142 and 143.

| Diameter of Dial Inch | Weight, Lbs | Iron Case Brass Ring Each | Brass Case Each |
|---|---|---|---|
| 2½ | ¾ | $ 6.00 | $ 8 00 |
| 3½ | 2½ | 7.00 | 9 00 |
| 4½ | 3½ | 8 00 | 10 00 |
| 5 | 4¼ | 8 00 | 11.00 |
| 6 | 7¾ | 13 00 | 16 00 |
| 6¾ | 9 | 16 00 | 20 00 |
| 8½ | 14 | 22 00 | 30 00 |

## LANE, DOUBLE SPRING

Figure 144.

| Diameter of Dial Inch | Iron Case, Japanned Each | Brass Case, Each |
|---|---|---|
| 4½ | *$10.00 | *$12.00 |
| 5 | * 11 00 | * 13 00 |
| 6 | * 15 00 | * 18 00 |
| 6¾ | * 18 00 | * 22.00 |
| 8½ | * 25 00 | * 34.00 |

## DOUBLE SPRING LOCOMOTIVE

Figure 145

| Diameter of Dial Inches | Weight, Lbs | Iron Case Japanned Each | Brass Case Each |
|---|---|---|---|
| 4½ | 3 | $10 00 | .. .. |
| 5 | 4 | 11 00 | .. .. |
| 6 | 8 | 15 00 | |
| 6¾ | 10 | 18 00 | $32 00 |

## STANDARD TEST.

Figure 146.

| Diameter of Dial Inch | Brass Case Each. | Nickel plated Case Each |
|---|---|---|
| 3 | $14.00 | $14 60 |
| 3½ | * 14 00 | * 14.75 |
| 4½ | * 16.00 | * 17.00 |
| 6 | * 25.00 | * 26 50 |
| 6¾ | * 30 00 | * 32 00 |
| 8½ | * 40 00 | * 42 50 |

Marked up in 1-lb. graduations by an open mercury column and warranted absolutely correct.

## COMBINED PRESSURE AND VACUUM.

Figure 147.

| Diameter of Dial, Inch | Weight Lbs | Iron Case, Japanned Each | Brass Case, Each |
|---|---|---|---|
| 3½ | 2½ | *$10.00 | *$12 00 |
| 4½ | 3¼ | * 12.00 | * 14.00 |
| 6 | 8 | 16.00 | 20 00 |
| 6¾ | 8½ | 20.00 | 25 00 |
| 8½ | 15 | 30 00 | 40 00 |

Graduations range from 30 to 60 lbs.

## HYDRAULIC.

Figure 148

| Diameter of Dial Inches | Weight, Lbs. | Iron Case Brass Ring Each | Brass Case Each |
|---|---|---|---|
| 5 | 5 | *$12 00 | |
| 6 | 8 | 35 00 | *$40 00 |
| 6¾ | 8½ | 50 00 | * 60 00 |
| 8½ | 15 | * 70 00 | * 80 00 |

Maximum hards, each $5. No extra charge for marking tons or rams on dials.

In ordering, state diameter of piston and highest pressure to be carried in pounds per square inch.

## COMBINATION WATER AND PRESSURE.

Figure 149.

Especially designed to indicate the pressure of water in pounds per square inch and corresponding height of water in feet. In ordering, please state maximum pressure or feet to be indicated.

| Diameter of Dial, Inch. | Weight, Lbs. | Iron Case Japanned, Each. | Brass Case, Each |
|---|---|---|---|
| 6 | 8 | $16 00 | $20 00 |
| 6¾ | 8½ | 20 00 | 25 00 |
| 8½ | 15 | 30 00 | 40 00 |

*Sizes not carried in stock.

## AMMONIA

Figure 583.

The interior portions of Ammonia Gauges are made entirely of iron and steel thereby making them impervious to the actions of ammonia or any acids or liquids which brass will not withstand. They are especially adapted for use on refrigerating and ice making plants, etc.

Diameter of dial inches ..... 6
Weight lbs. ..... 6¾
Each ..... $35 00

Orders should state whether a compound scale showing pressure and vacuum, or pressure only, and whether regular bottom or back connections are required.

# Letter Box Plates.

Half Size Cuts.

No. P3426½.

**No. P3426½**—2×6¼ in., Iron, Bronze Plated, Weight per Dozen, 12 lbs. ..... Per Dozen, $4 00
Half Dozen in a Box, with Screws

No. 02306½.

Half Dozen in a Box, with Screws.

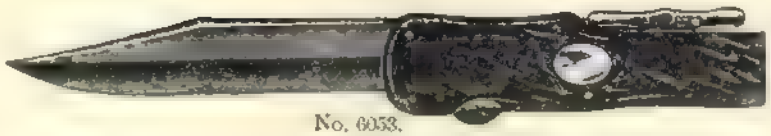
**No. 02306½**—2½×6¾ in., Bronze Metal Polished, with Back Plate, Fastened with Machine Screws, Weight per Dozen, 10 lbs ..... Per Dozen, $20 00
**No. 02306½×23¼**—As Above, An. Cop. Fin., " " 24 00
**No. 02306½×23**—As Above, Rustless Iron " " " 15 00

# House Letter Boxes.

Size 10⅞x5½x2⅝ in.

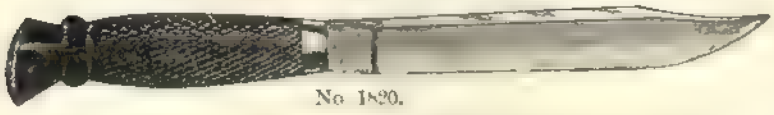
**No. 2**—All Steel, Dull Black Finish, with Two Keyed Secure Lever Lock, Weight Each, 2¾ lbs. ..... Per Dozen, $18 00
**No. 10**—All Brass, Lacquered, " " " " " " " " 3 " ..... " " 24 00
Handsomely Finished, Glass Panel in Door, Brass Card Holder Inside, Spring Attached to Bottom of Box to Hold Papers.
One in a Box.

# HUNTING KNIVES.



No. 6053.

**No. 6053**—Folding. Buffalo horn handle. 5-inch blade, adjustable to 8 inches. With scabbard..... Each, $7 50



No. 1820.

**No. 1820**—Rodgers' pattern. 4½-inch blade. Fancy pearl scored clons handle, with black leather scabbard..... Per dozen, $30 00

**No. 1821**—Same as No. 1820. 6-inch blade..... 36 00

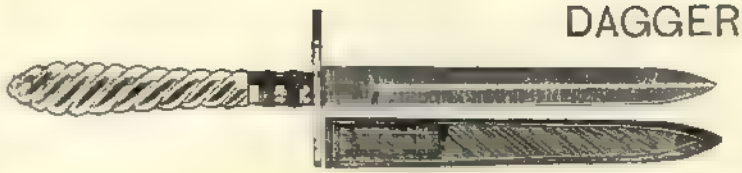
SWEDISH.

Nos. 3 to 01

| Nos. | 3 | 2 | 1 | 01 |
|---|---|---|---|---|
| Length of blade, inch.. | 2¼ | 2½ | 3 | 3½ |
| Per dozen..... | $9 00 | 9 00 | 12 00 | 18 00 |

No. 6053, one-twelfth dozen; balance, one-half dozen in box

# DAGGERS.



**No. 1186**—4-inch blade. Fancy pearl handle. German silver guard. Black leather sheath, with loop for belt.....Per dozen, $24 00

**No. 1168**—4½-inch blade. Plain pearl handle. German silver guard Black leather sheath, with loop for belt.....Per dozen, $24.00

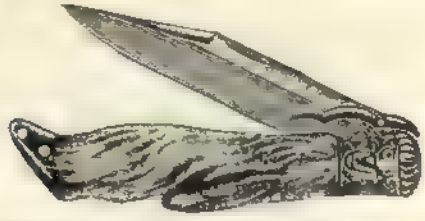
One-half dozen in box.

# SPORTSMEN'S KNIVES.

**No. 2302**—Folding. Horn handle. Nickel-plated shield and ring

| Length of blade, inch | 4 | 4½ | 5 |
|---|---|---|---|
| Per dozen..... | $30 00 | 36 00 | 42.00 |

One-half dozen in box.



**No. 0377**—Genuine deer-foot handle. Brass lined. German silver bolster and guard. 4¼-inch extra heavy swaged blade, hand-forged and polished..... Per dozen, $15 00

**No. 0923½**—Genuine deer-foot handle. Brass lined. German silver bolster and guard. 4½-inch extra heavy swaged blade, hand-forged and polished, and heavy Corkscrew. Per dozen, $36.00

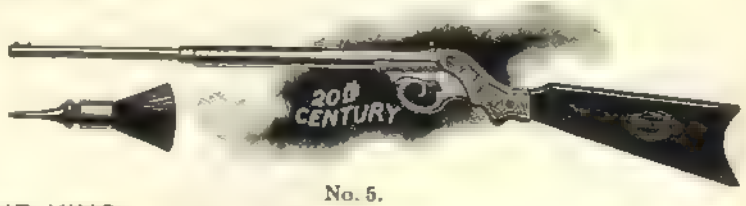
One-half dozen in box

# AIR RIFLES.

## THE DAISY.

**The New Daisy**—Made with walnut or steel, skeleton stock, nickel-plated, globe sights, full length 31 inches, shoots BB shot or darts.

**No. 5**—Wood stock, single shot . ...Per dozen, $12.00
**No. 6**—Skeleton stock, single shot... .. " 10 00
**No. 8**—Wood " repeater, 48 shots " 15 00
**No. 08**—Darts (extra)... . . . . " .60

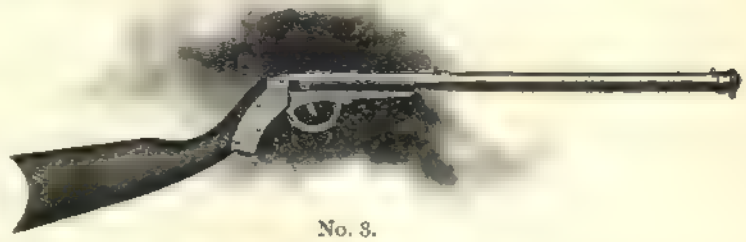



No. 5.

## THE KING.

**The King**—Nickel-plated, walnut stock, pistol grip, all parts interchangeable.

**No. 1**—Single shot .....Per dozen, $12.00
**No. 3**—Repeater, 150 shots ..... " 15.00



No. 3.

## THE PRINCE.

**The Prince**—Black walnut stock, nickel-plated frame and barrel, will shoot regular air gun shot through ¼-inch pine

**No. 10**—Single shot ... ..... . .. .. Per dozen, $12 00
**No. 13**—Repeater, 150 shots " 15 00

No. 10.

## THE CHICAGO.

**The Chicago**—Entire gun made of stained wood, with brass mechanism and nickel-plated trimmings, will shoot BB shot and air gun darts.

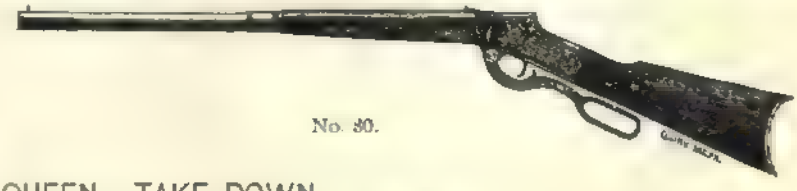
**No. 20**.. .. . .. .....Per dozen, $12.00

No. 20

## THE COLUMBIAN.

**The Columbian**—Walnut stock, lever action, shoots 1000 BB shot without reloading. Full length of gun, 36 inches.

**No. 80**—Enameled frame, nickel barrels .. Per dozen, $30.00
**No. 83**—Full nickel frame and barrels. ..... .. " 42 00



No. 80.

## THE QUEEN. TAKE DOWN.

No. 40

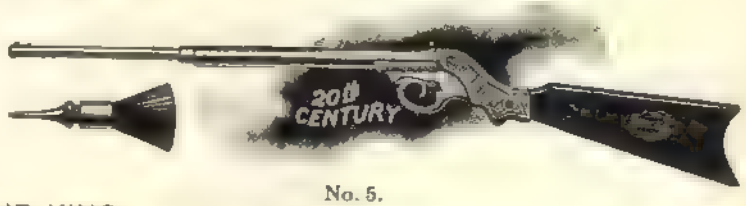
**No. 40**—The Queen Air Rifle, walnut stock, nickel-plated frame and barrel, full length 34 inches, in a hinge covered box, 14 inches long by 4½ inches wide, shoots BB shot, darts or slugs .....Per dozen, $24.00

# AIR RIFLES.

## THE DAISY.

**The New Daisy**—Made with walnut or steel, skeleton stock, nickel-plated, globe sights, full length 31 inches, shoots BB shot or darts.

**No. 5**—Wood stock, single shot . . Per dozen, $12.00
**No. 6**—Skeleton stock, single shot..... " 10 00
**No. 8**—Wood " repeater, 48 shots " 15.00
**No. 08**—Darts (extra)..... " .60

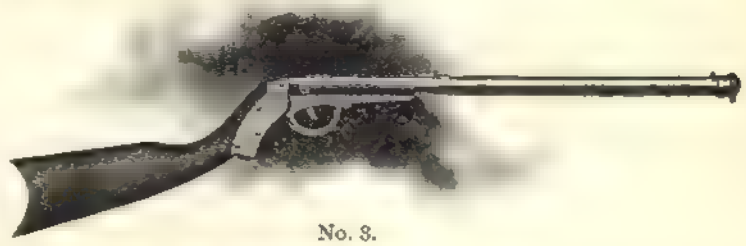



No. 5.

## THE KING.

**The King**—Nickel-plated, walnut stock, pistol grip, all parts interchangeable.

**No. 1**—Single shot ... .. .. .Per dozen, $12.00
**No. 3**—Repeater, 150 Shots . " 15.00



No. 3.

## THE PRINCE.

**The Prince**—Black walnut stock, nickel-plated frame and barrel, will shoot regular air gun shot through ¼-inch pine

**No. 10**—Single shot .. ..... . ... Per dozen, $12.00
**No. 13**—Repeater, 150 shots ..... " 15 00

No. 10.

## THE CHICAGO.

**The Chicago**—Entire gun made of stained wood, with brass mechanism and nickel-plated trimmings, will shoot BB shot and air gun darts.

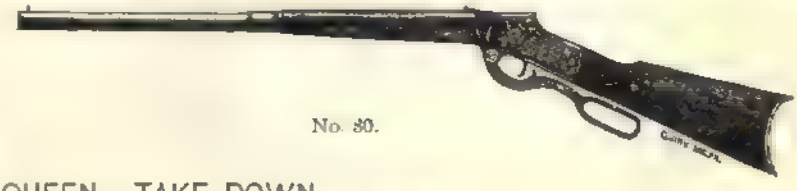
**No. 20**... . . . . .....Per dozen, $12.00

No. 20

## THE COLUMBIAN.

**The Columbian**—Walnut stock. lever action, shoots 1000 BB shot without reloading. Full length of gun, 36 inches.

**No. 80**—Enameled frame, nickel barrels... . . . ...Per dozen, $30.00
**No. 83**—Full nickel frame and barrels..... .. . ... . " 42 00



No. 80.

## THE QUEEN. TAKE DOWN.

No. 40

**No. 40**—The Queen Air Rifle, walnut stock, nickel-plated frame and barrel, full length 34 inches, in a hinge covered box, 14 inches long by 4½ inches wide, shoots BB shot, darts or slugs.....Per dozen, $24.00

# CARPENTERS' PENCILS.

## EAGLE.

**No. 430**—Length, 7 inches. Oval. White wood, with rule measure in colored stamp. Weight, 3¼ lbs .... ....Per gross, $3 70

**No. 435**—Length, 7 inches. Oval. Cedar, polished. Plain stamp. Weight, 3½ lbs.... .....Per gross, $4 35

## SALEM.

**No. 440**—Length, 7 inches. Oval. Cedar, mottled finish. Gold stamp. Weight, 4¼ lbs.. ... Per gross, $7.60
All above, one-half gross in box.

**No. 131**—Assortment, containing half gross. Weight, 2¼ lbs..... ..... ..Per box, $3 50

### CONTENTS.

Two dozen plain cedar.
One " " " with ruled measure.
One " black polished, oval, with ruled measure
One dozen maroon polished, oval, with ruled measure.
One " mottled " octagon, "

# SOAPSTONE PENCILS.

Length, 5 and 6 inches. Weight, 1¼ lbs..... .....Per hundred, $0.50

One hundred in box.

# CRAYONS.

## LUMBER.

Hexagon. Paper Covered. Size, 5 x ½ Inches.

**No. 5**—Black lead.. .....Per gross, $9.00
**No. 10**— " " Soft..... " 9.00
**No. 15**—Red lead .. ..... .. .Per gross, $9 00
**No. 20**—Blue " ..... " 9 00

Weight, 10 lbs. One-half gross in box.

## METAL WORKERS'.

**No. 30**—Flat. Sawed out of solid soapstone. Weight, 6¾ lbs..... .....Per gross, $3 60

One gross in box.

**No. 525**—Hexagon Sawed out of solid soapstone Nothing equals it for marking on all dark-colored metals Weight, 15½ lbs..Per gross, $9 00

One-half gross in box.

# CHALK.

## SCHOOL CRAYONS.

**White**—Weight, 2 lbs ...Per gross, $0.50

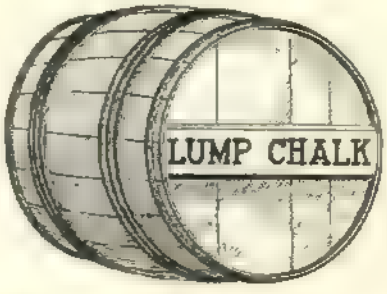
One gross in box.

## PREPARED.

| Colors | White | Red | Blue |
|---|---|---|---|
| Weight, lbs.... | 18 | 20 | 20 |
| Per gross..... | $1.25 | 1.40 | 1.70 |

One-half gross in box.

## LUMP.

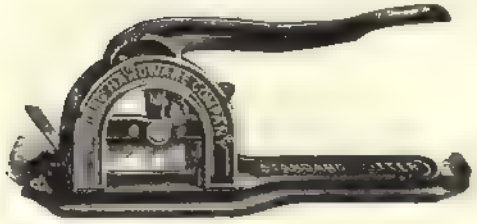



**White**—Average weight, 400 lbs. per barrel.....Per pound, $0 06

In bulk.

# TOBACCO CUTTERS.

## STANDARD.

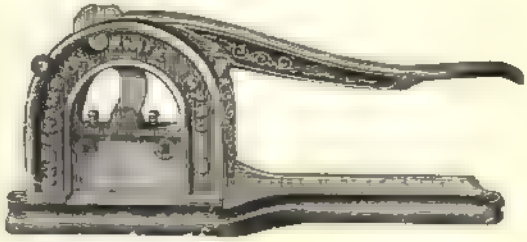


Japanned Frame. Ornamented. Steel Knife.

**No. 10**—Cuts plug 3½ inches wide. Weight, 12 lbs. Each, $1 75

One-half dozen in case.

## ENTERPRISE.



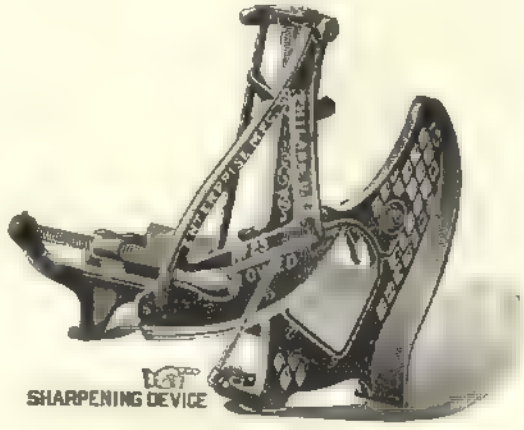
Tempered Steel Knife. Draw Cut

**No. 1**—Cuts plug 4⅛ inches wide. Weight, 6½ lbs. Each, $1 75
**No. 2**— " " 4⅞ " " " 7¼ " " 2 50

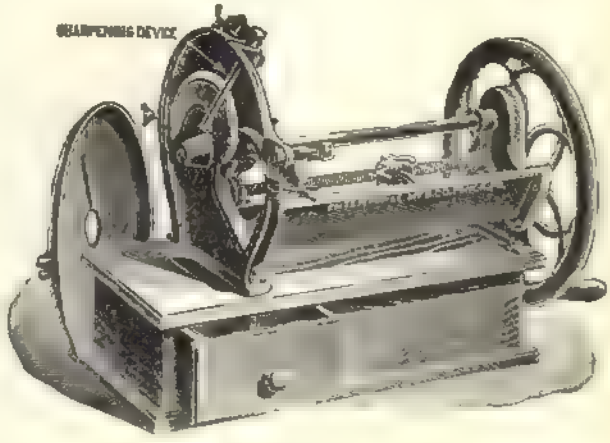
One dozen in case.

# SMOKED BEEF SHAVERS.

## ENTERPRISE.




Nos. 23 and 24




No 125.

Self-Sharpening Device. Automatic Feed

In Nos. 23 and 24 the knife is suspended pendulum-like, and each stroke cuts a slice cleanly and quickly, requiring but a few moments to shave down a pound of beef. The automatic feed can be regulated to cut shavings as thin as tissue paper to slices one-eighth of an inch thick, by adjusting small bolt holding connecting rod

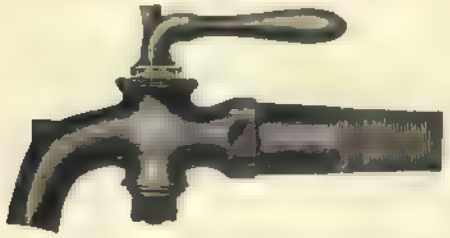
**No. 23**—Japanned. Weight, 9 lbs.....Each, $ 8.50
**No. 24**—Tinned. " 9 " " 10.00

No. 125, rotary beef shaver, has about five times the capacity of Nos. 23 or 24. The feed is easily regulated and cannot shift while in use, regulation taking place when the knives are not cutting, therefore the slices are of uniform thickness, from that of tissue paper to an eighth inch, according as the machine may be adjusted. The sliced beef falls into a drawer, which holds about two pounds, providing a receptacle for beef sliced in excess of what is immediately wanted

**No. 125**—With 2 blades. Weight, 82 lbs.....Each, $22 50

One in case

# Petroleum Faucets.

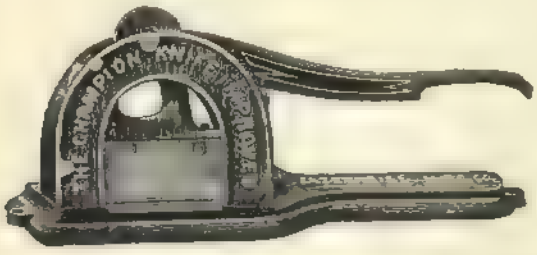


Nos. 14 to 6

**Iron Body, Brass Key, Lever Handle, Screw Shank.**

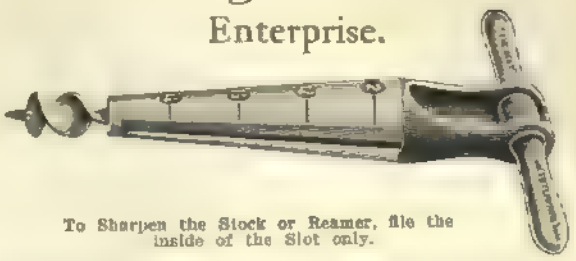
| Nos | 14 | 5 | 6 |
|---|---|---|---|
| Diameter Bore, inch | ½ | ⅝ | ¾ |
| Weight per Dozen, lbs | 12 | 15½ | 20½ |
| Per Dozen | $8 25 | 9 00 | 10 50 |

Half Dozen in a Box




# Bung Borers.

## Enterprise.



To Sharpen the Stock or Reamer, file the inside of the Slot only.

**Bores Smooth Taper Hole, Holds Its Own Chips.**

| Nos | 1 | 2 | 3 |
|---|---|---|---|
| Diameter Bore, inch | ⅝ to 1½ | 1⅝ to 2 | 1½ to 3 |
| Weight Each, lbs | 1¾ | 2¼ | 2¾ |
| Each | $1 25 | 1 65 | 2 50 |

# Tobacco Cutter.

## Enterprise.

**Tempered Steel Blade, Draw Cut Movement.**

**No. 1**—Cuts Plug 4⅜ in. Wide, Weight Each, 16 lbs .... Each, $1 75

One Dozen in a Case.

# Smoked Beef Shavers.

## Enterprise Pendulum.

With Self-Sharpening Device.

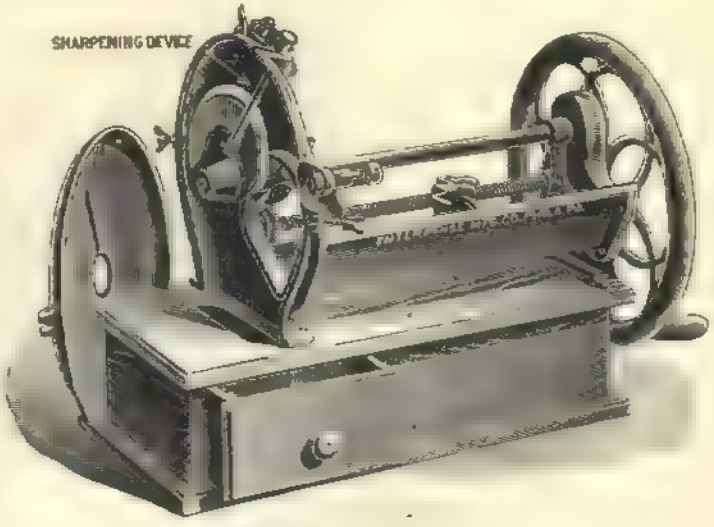
**Japanned, to Screw on Counter.**

The knife is suspended pendulum-like, and each stroke cuts a slice clean, clear and quickly, taking but a few moments to shave down a pound of beef. The automatic feed can be regulated to cut from shavings as thin as tissue to slices one-eighth of an inch thick by adjusting small bolt holding Connecting Rod.

**No. 23**—Weight Each, 35 lbs..... Each, $7 50

One in a Case

## Enterprise Rotary.



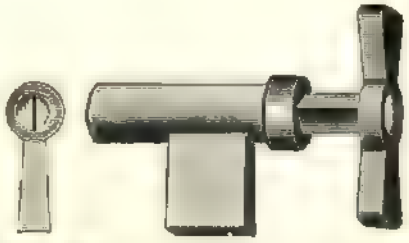

**Japanned, With Drawer.**

The New Rotary Beef Shaver has about five times the capacity of the No. 23. Its feed is easily regulated and cannot shift while in use. The Feed takes place when the Knives are not cutting, therefore the slices are of uniform thickness, from that of tissue paper to an eighth of an inch, according as machine is adjusted. The sliced beef falls into a Drawer, which holds about two pounds, providing a receptacle for beef sliced in excess of what is immediately wanted.

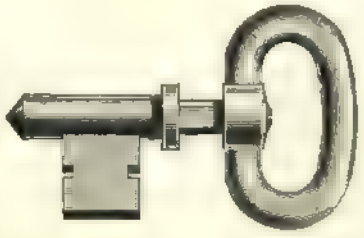
Length, 30 in. Width, 16 in. Height, 21 in

**No. 135**—Weight Each, 90 lbs.....Each, $18 00

# KEY BLANKS.

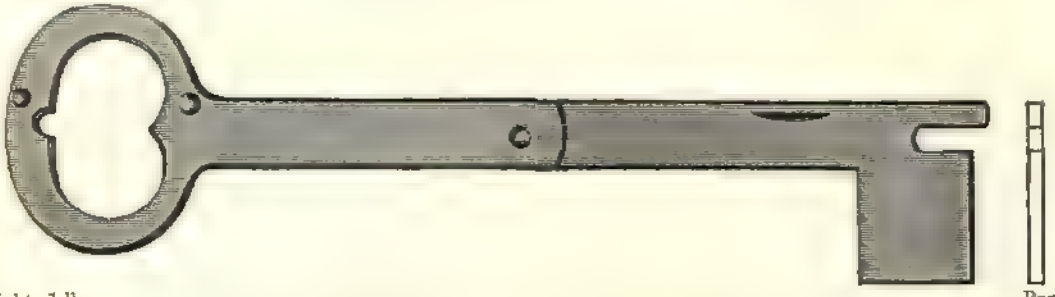


No. 165—Weight, ¼ lb.... Per dozen, $2 00



No. 540—Weight, ¼ lb.... Per dozen, $2.00

No. 6844—Weight, ¼ lb.... Per dozen, $5.00



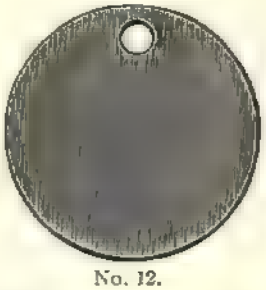
No. 6830—Weight, 1 lb.... Per dozen, $5 00

Three dozen in box.

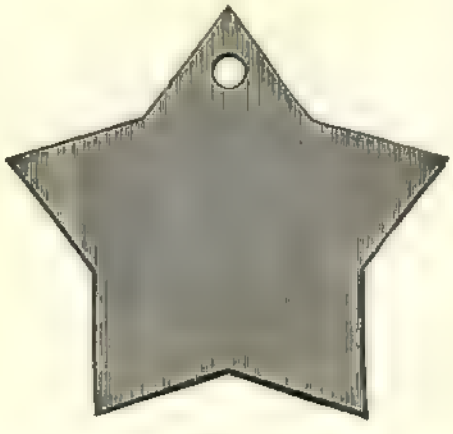
# KEY CHECKS.

No. 2.

No. 4.



No. 12.

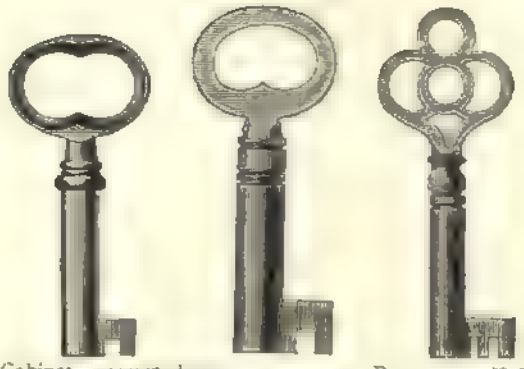


No. 18.

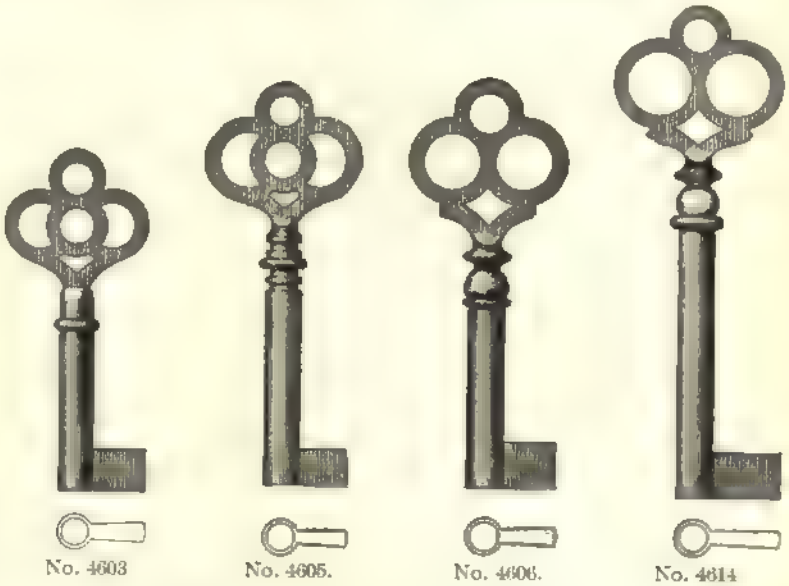
| | | | | |
|---|---|---|---|---|
| No. 2—Brass. | Weight, 1 lb.. | Per hundred, | $1 50 |
| No. 4— " | " 1 " | " | 1 50 |
| No. 12— " | " 2 " | " | 2 00 |
| No. 18— " | " 3 " | " | 2 00 |

Cuts, full size.

# FANCY BOW CABINET KEYS AND KEY BLANKS.



| | | |
|---|---|---|
| Cabinet, | assorted sizes | Per gross, $3.75 |
| Cupboard | " " | " 3 75 |
| Chest, | " " | " 3 75 |
| Chest, | large sizes | " 5 00 |
| Till, | " sizes | " 5 25 |
| Wardrobe, | " " | " 4.75 |



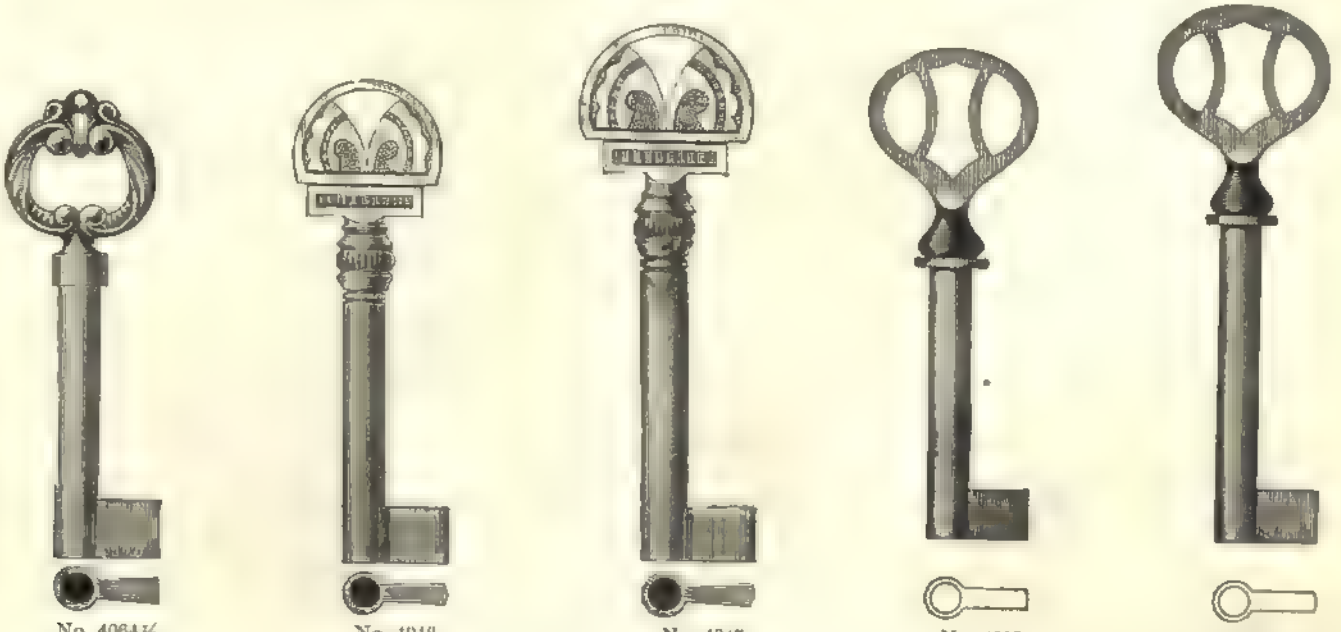
No. 4603
Per dozen, $0 15.

No. 4605.
Per dozen, $0.25.

No. 4606.
Per dozen, $0.25.

No. 4614
Per dozen, $0 50.

# FANCY GOLD-PLATED KEY BLANKS.



No. 4064½.
Per dozen, $1 50.

No. 4046.
Per dozen, $1.50.

No. 4047.
Per dozen, $1.50.

No. 4002
Per dozen, $1.75.

No. 4003.
Per dozen, $1.25.

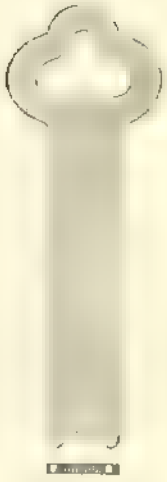
Average weight, 3 lbs. per gross
Cuts, full size. All above, six dozen in box

# Key Blanks.

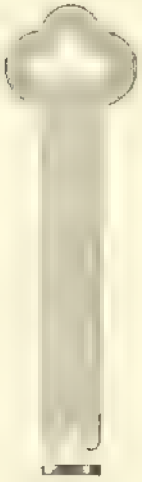
Full Size Cuts

## Steel.

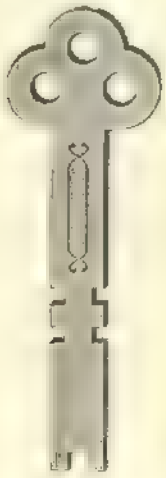
No. 49, Lincoln.



No 8489.



No 8487.

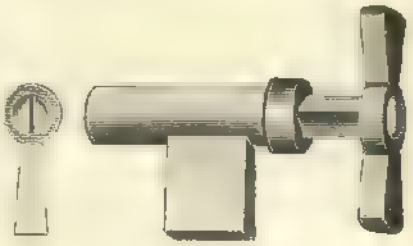


No 114

Steel Key Blanks, Nos. 49 to 114 ..... Per Dozen, $1 25

Three Dozen in a Box.

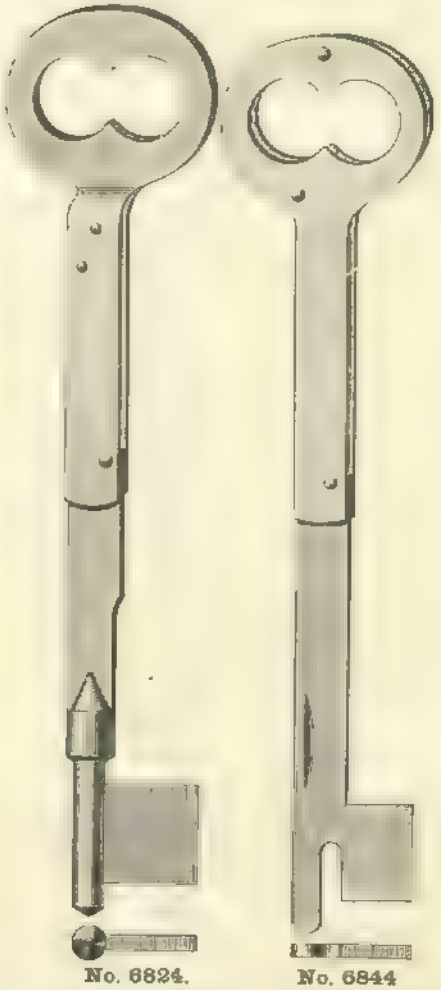
## Bronze Extension.



No 6899.

Per Doz . . . . $2 00

## Steel Folding.



No. 6824. No. 6844

Per Doz. $5 00 Per Doz. $5 00

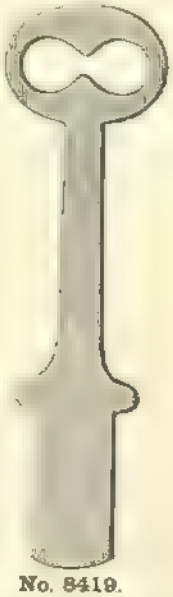
Weight per Dozen, ¾ lb.

No. 378.

Per Doz $1 00

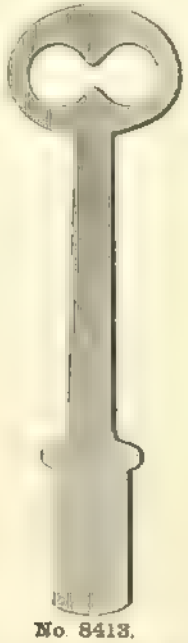
No. 8410.

Per Doz $1 25



No. 8419.

Per Doz $1 25

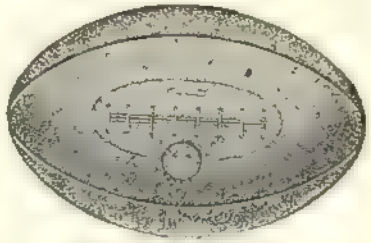


No. 8413.

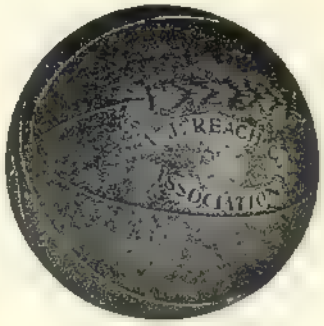
Per Doz $1 25

Three Dozen in a Box.

# FOOTBALLS.



Nos. 50, 5S, 5R and 5.




Nos. 5X and 5A.

**No. 50** —Youths' Rugby, made of fine pebble grain leather, canvas lined, complete with bladder.....Per dozen, $15 00
**No. 5S**—Amateur " " " the finest pebble grain leather, canvas lined, complete with bladder ..... " 24 00
**No. 5C**—Academic " " " American " " " lined with the best canvas, complete with bladder, lacing needle and leather lace ..... " 36 00
**No. 5R**—Rugby match, made of the finest American pebble grain leather, complete with rubber bladder, lacing needle and leather lace..... Each, 3.70
**No. 5** —Inter-collegiate, made of imported pebble grain leather, true in all its proportions, complete with rubber bladder, pump, lacing needle and leather lace ..... " 6 00
**No. 5X**—Amateur association, made of the finest pebble grain leather, canvas lined..... Per dozen, 30.00
**No. 5A**—Match " " " " " American pebble grain leather, complete with rubber bladder, lacing needle and leather lace..... Each, 5.50

All footballs sold complete with bladders.

# FOOTBALL INFLATORS.

POCKET. CLUB

No. 1. No. 2.

**No. 1**—Per dozen..... $ 3.50
**No. 2**—Brass, nickel-plated..... Per dozen, 12 00

# FOOTBALL BLADDERS.

**No. 5** —Medium size.....Per dozen, $12.00
**No. 5H**—Large " 18 00

# MORRILL NOSE MASKS.

**No. 1** —Regulation size.....Per dozen, $27 00
**No. 1B**—Boys' " " 27 00

# FOOTBALL SHIN GUARDS.

**No. 7**—Drab canvas, cane ribs, well padded, boys' size.....Per dozen pairs, $ 9.00
**No. 5**—Drab canvas, cane ribs, well padded, men's size.....Per dozen pairs, 13.00
**No. 8**—Mole skin, cane ribs, well padded, ..... Per dozen pairs, 20.40
**No. 1**—Russian calf, cane ribs, well padded..... Per dozen pairs, 27 00

No. 1.

# FOOTBALL HEAD HARNESS.

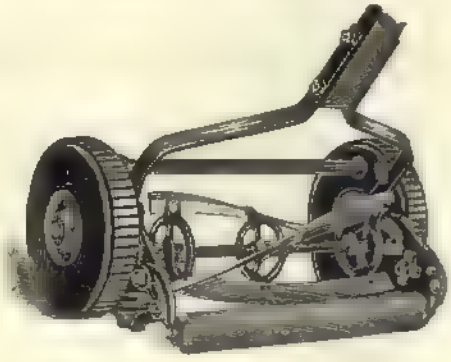
**No. 1**—Made of tan leather and thoroughly padded with 1½-inch wool felt padding. A perfect protection to the crown, back of the head and the ears..... Per dozen, $42.00
**No. 5**—Pebble grain helmet, heavy felt padding, canvas lined. A thorough protection for the head and ears..... " 30.00

No. 5.

PACIFIC HARDWARE & STEEL COMPANY

# LAWN MOWERS.

## FREMONT OR MISSION.

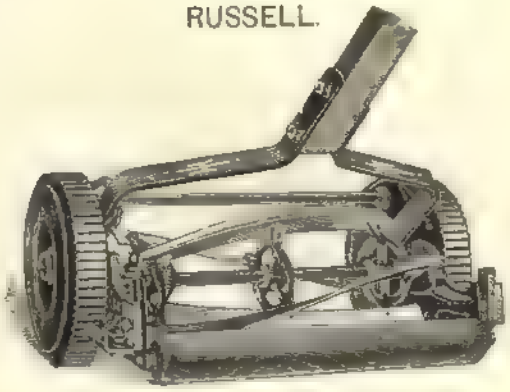


Diameter of Wheel, 8¼ Inches

This mower is made to meet the demands of that trade which requires a low-priced but efficient machine. It is made of good material and guaranteed to give satisfaction; has a reel adjustment of a very simple character; a solid steel cutter bar which is bolted firmly to the machine and a simple ball ratchet, which is noiseless in action and dust-proof. All parts are interchangeable.

| | | | | |
|---|---|---|---|---|
| Width of cut, inch | 10 | 12 | 14 | 16 |
| Weight, lbs. | 34 | 37 | 41 | 43 |
| Each | $4 50 | 5.00 | 5.50 | 6 00 |

## RUSSELL.

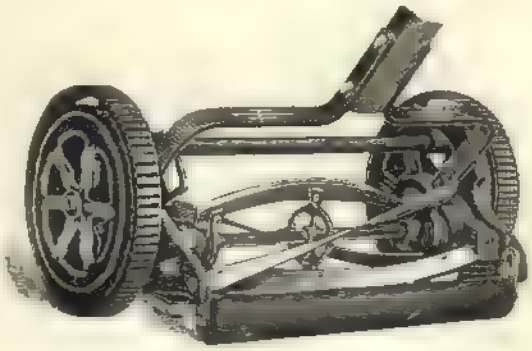


Diameter of Wheel, 8¼ Inches

This lawn mower is made for family use, with light running qualities, extremely simple mechanism and is constructed throughout of the very best materials. The revolving cutters, four in number, are of best tool steel, tempered in oil. The bed knife is of a fine quality of spring steel.

| | | | | |
|---|---|---|---|---|
| Width of cut, inch | 10 | 12 | 14 | 16 |
| Weight, lbs. | 33 | 37 | 38 | 40 |
| Each | $5 50 | 6 00 | 6 50 | 7 00 |

## PHOENIX BALL-BEARING.



Diameter of Wheel, 10 Inches

The Phoenix Ball Bearing Lawn Mower is equipped with reciprocating pin ratchets, and constructed throughout of the very best material. Where two parts are joined together, they are machined with the greatest care, so that they will fit together with mathematical exactness, as a result, there is no lost motion anywhere about the mower. It combines strength with lightness, and is noiseless in operation. It is graceful in appearance, and highly finished in solid aluminum, which is a great protection against the weather, and makes it the handsomest mower ever placed on sale. It has a reel adjustment; the cutter bar is bolted solidly to the mower, which gives the additional advantage of holding all working parts in perfect position. The revolving cutters, four in number, are spiral, and give a continuous shear cut. All blades are of best crucible steel, tempered in oil. Absolutely guaranteed.

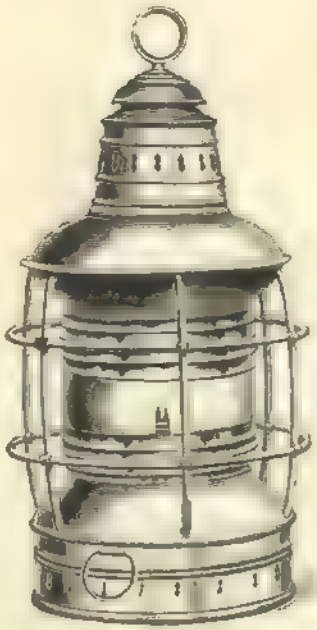
| | | | | |
|---|---|---|---|---|
| Width of cut, inch | 12 | 14 | 16 | 18 |
| Weight, lbs. | 52 | 54 | 56 | 60 |
| Each | $14.00 | 15.00 | 16.00 | 17 00 |

One in case.

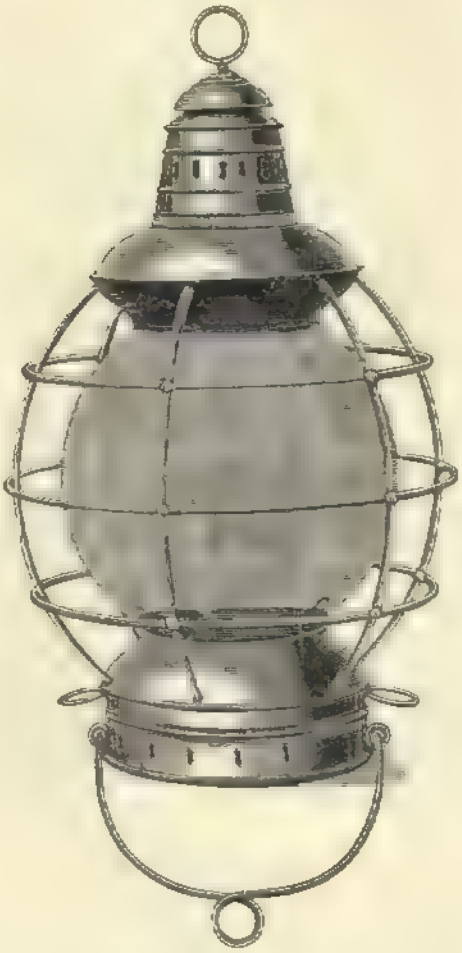
# Galvanized Ship Lights.

## Signal.

Anchor.

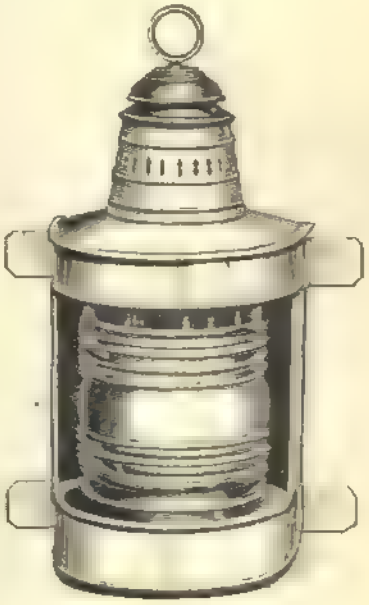


Nos 204, 205 and 206.



No. 210.

Mast Head or Bow.



Nos 216, 215 and 214.

### Anchor.

**No. 204**—Fresnel Globe, 4 in. Diameter, Height 15 in., No. 0 Convex Burner, ½ in. Wick, Weight Each Net 4 lbs. .... Each, $ 6 25
**No. 205**— " " 6 " " " 17 " " 1 " " ⅝ " " " 6 " " " 7 50
**No. 206** " " 8 " " " 24 " " 2 " " 1 " " " 14 " " " 14 25

### Signal.

**No. 210**—Red Globe, 10 in. Diameter, with Bail at Bottom, Height 20 in, No. 28 Convex Burner, 1 in Wick Weight Each Net, 9½ lbs. .....Each, $10 00

### Mast Head or Bow.

**No 216**—Fresnel Glass, 5–6 in. Height 14 in. No. 0 Convex Burner, Wick ⅝ in., Weight Each Net, 4½ lbs. Each $ 6 75
**No 215** " " 6–6 " " 18 " " 1 " " " ⅝ " " " " 7 " " " 8 00
**No. 214** " " 7×12 " " 21 " " 2 " " " 1 " " " " 11 " " " 18 00

Fresnel Globe.

## Extra Globes and Glasses.

### Fresnel Globes for Anchor Lights.

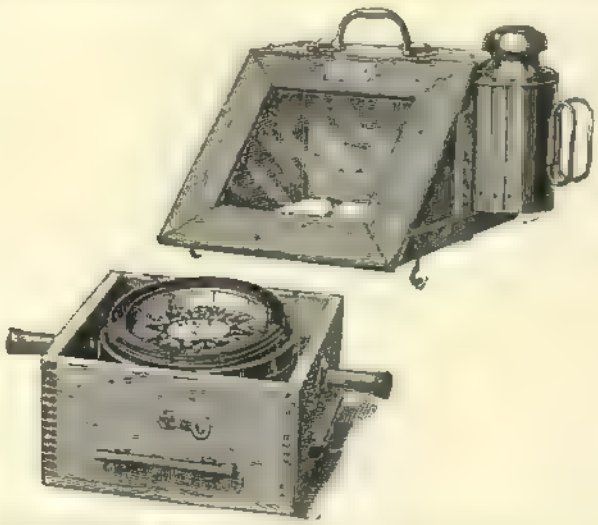
| Size, inch | 4 | 6 | 8 |
|---|---|---|---|
| Weight Each, lbs. | 2½ | 5 | 8 |
| Each | $3 00 | 4 00 | 7 50 |

**Red Globes**—for No. 210 Signal Light.....Each, $8 50

### Fresnel Glasses for Mast Head or Bow Lights.

| For Nos | 216 | 215 | 214 |
|---|---|---|---|
| Weight Each, lbs. | 1½ | 2½ | 4 |
| Each | $2 50 | 4 00 | 5 00 |

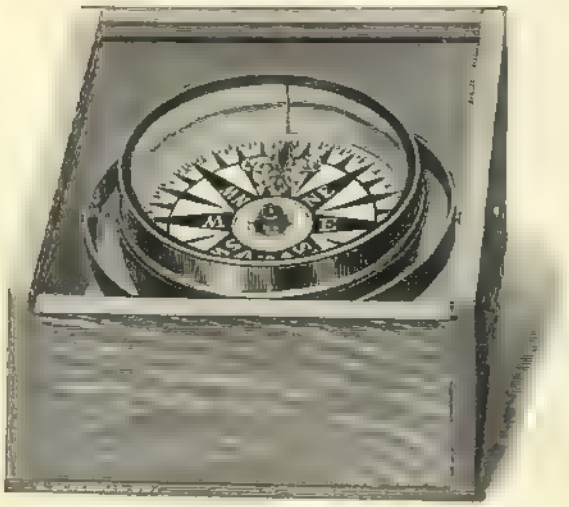
# Box Binnacle Compass and Light.



**No. 1**—Mahogany Box, 6¼×6¼×7¾ in. High, 3 in. Liquid Compass, Gimballed, with Polished Brass Lamp. Weight Each, 6 lbs. ..... Each, $25 00

# Marine Compasses.

## Dry.



Wood Box.

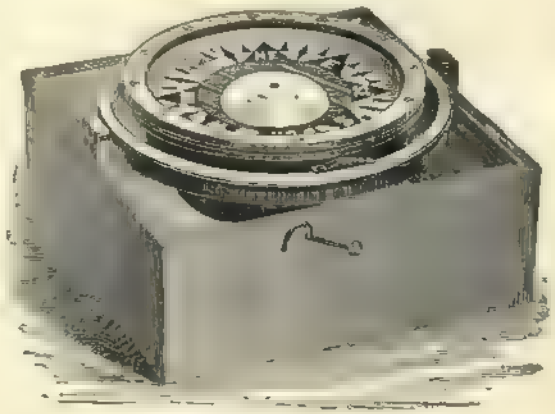
| No. | Card, Inch. | Box, Inch. | Weight, lbs. | Each. |
|---|---|---|---|---|
| 15 | 3 | 5 | 1½ | $ 6 00 |
| 16 | 3½ | 6 | 2¼ | 7 00 |
| 17½ | 4 | 7½ | 4¼ | 8 00 |
| 18½ | 5 | 8½ | 6 | 10 00 |
| 20 | 7 | 10 | 7½ | 12 00 |

One in a Wooden Box.

Mahogany Case.

**No. 1830**—Card 1⅞ in., Glass 2 in., Ring 2½ in., Box 3¼ in., Weight Each, 1 lb., ..... Each, $3 75

## Ritchie's, Liquid.



Mahogany Case—Curved Card.

| No. | Card, Inch. | Glass, Inch. | Ring, Inch. | Box, Inch. | Weight, Ea., lbs. | Each. |
|---|---|---|---|---|---|---|
| 23 | 3⅛ | 3 | 5⅛ | 6¾ | 6 | $21 00 |
| 24 | 4 | 4 | 6 | 7¼ | 8 | 25 00 |
| 25 | 4½ | 5 | 6½ | 8¼ | 9½ | 27 50 |
| 26 | 5 | 6 | 8¾ | 9½ | 13½ | 31 00 |
| 27 | 6¾ | 7 | 9¾ | 11 | 19 | 32 00 |
| 28 | 7½ | 8 | 10¾ | 12 | 25 | 39 00 |

One in a Wooden Box.

Baby, Liquid.

**No. 12**—Mahogany Case, 4½ in., Card 2 in., Glass 2⅛ in., Ring 3⅝ in., Weight Each, 2½ lbs. ..... Each, $12 00

## OPEN SEASON FOR GAME.

### In Effect from August 1, 1902.

| States. | Deer. | Elk. | Moose, Caribou. | Antelope. | Squirrel. |
|---|---|---|---|---|---|
| California. | Aug. 1 to Oct. 1. | Closed. | No law. | Closed. | Aug. 1 to Feb. 1. |
| Oregon | July 15 to Nov. 1 | Closed to Sept. 15, 1904. | July 15 to Nov. 1 | July 15 to Nov. 1. | Oct. 1 to Jan. 1. |
| Washington. | Sept. 15 to Dec. 15. | Sept. 1 to Nov. 1. | Sept. 1 to Nov. 1. | Sept. 1 to Nov. 1. | No law. |
| Idaho. | Sept. 1 to Jan. 1. | Sept. 1 to Dec. 1. | Closed to 1904. | Sept. 1 to Jan. 1. | " |
| Utah. | Oct. 15 to Nov. 15. | Closed. | No law. | Closed. | " |
| Nevada. | Closed to Mch. 28, 1903. | " | Closed | Closed to Mar. 28, 1903. | " |
| Arizona. | Nov. 15 to Dec. 15. | " | No law. | Closed to Jan. 1, 1906. | " |

| States. | Rabbit. | Quail. | Grouse. | Prairie Chicken. | Wild Turkey. |
|---|---|---|---|---|---|
| California. | No Law. | Oct. 1 to Feb. 1. | Oct. 1 to Feb. 1. | No law. | No law. |
| Oregon. | " | Oct. 1 to Dec. 1. | Oct. 1 to Dec. 1. | Oct. 1 to Dec. 1. | Closed to Oct. 1, 1905. |
| Washington. | " | Closed to 1903. | Aug. 15 to Dec. 1 | Aug. 15 to Dec. 1. | No law. |
| Idaho. | | Nov. 1 to Dec. 1. | Aug. 15 to Dec. 1. | Aug. 15 to Dec. 1 | " |
| Utah. | " | Closed. | Aug. 15 to Dec. 1. | Aug. 15 to Dec. 1. | " |
| Nevada. | " | Sept. 1 to Mar. 16. | Closed to Sept. 1, 1903. | Sept. 1 to Mar. 16. | " |
| Arizona. | " | Oct. 15 to Mar. 1. | Oct. 15 to Mar. 1. | No law. | Nov. 15 to Dec. 15. |

| States. | Dove. | Pheasant. | Plover. | Snipe. | Woodcock. |
|---|---|---|---|---|---|
| California. | Aug. 1 to Feb. 1. | Closed. | Oct. 1 to Feb. 1. | No law. | No law. |
| Oregon. | No law. | Closed to Oct. 1, 1905. | Aug. 1 to Jan. 1. | " | " |
| Washington. | " | Closed to Aug. 15, 1905. | Aug. 15 to Mar. 1. | " | " |
| Idaho. | " | No law. | No law | " | " |
| Utah. | July 1 to Dec. 1. | Closed. | " | Oct. 1 to Jan. 15. | " |
| Nevada. | July 15 to Nov. 2. | Closed to Sept. 1, 1906. | Sept. 1 to Mar. 16 | Sept. 1 to Mar. 16. | Sept. 1 to Mar. 16. |
| Arizona. | No law. | Oct. 15 to Mar. 1. | No law. | Oct. 15 to Mar. 1 | No law. |

| States. | Rail. | Duck | Geese and Swan |
|---|---|---|---|
| California. | Oct. 1 to Feb. 1. | Oct. 1 to Feb. 1 | No law |
| Oregon. | Aug. 1 to Jan. 1. | Sept. 1 to Mar. 1. | Sept. 1 to Mar. 1 |
| Washington. | Aug. 15 to Mar. 1. | Aug. 15 to Mar. 1. | Aug. 15 to Mar. 1 |
| Idaho. | No law. | Aug. 15 to Mar. 1. | Aug. 15 to Mar. 1. |
| Utah. | " | Oct. 1 to Jan. 15 | Oct. 1 to Jan. 15 |
| Nevada. | " | Sept. 1 to Mar. 16. | Sept. 1 to Mar. 16 |
| Arizona. | Oct. 15 to Mar. 1. | Oct. 15 to Mar. 1. | Oct. 15 to Mar. 1. |

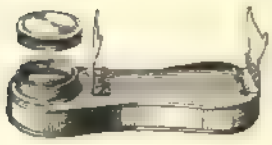
The killing of Sage Hens is prohibited at all times

PACIFIC HARDWARE & STEEL COMPANY

# ALCOHOL STOVES.

## CURLING IRON HEATER.

GERMAN.



No. 3304.

AMERICAN.

No. 3306.

## MAYFLOWER.

No. 1020

No. 1022.

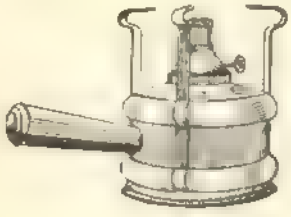
**No. 3304**—Tin. With brass screw cap. Weight, 1½ lbs..... Per dozen, $3 00
**No. 3306**—Revolving and self-extinguishing. No oil, no smut, no smell, cannot soil anything. Size, 4x1 inches. Weight, 1,2 lbs. " 7 50
**No. 1020**—Brass. Weight, 2½ lbs. " 3 00
**No. 1022**—Nickel-plated. With cup. Weight, 5 lbs..... " 5 00

No. 3304, one-half dozen; balance, one dozen in package.

## GEM POCKET.

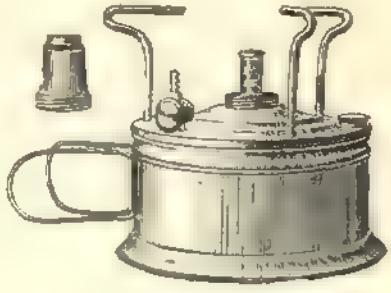
No 110.

## GLASS.



No. 3.

## TIN.

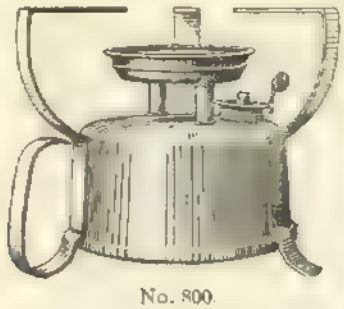


No 20

**No. 110**—Iron folding stand. Brass bowl. Weight, 3 lbs..... Per dozen, $2.00
**No. 3**—Heavy glass bowl. " burner. Flame easily regulated. Weight, 6½ lbs. " 6 00
**No. 20**—Brass burner, with regulator and folding handles. Weight, 9 lbs..... " 7.50

No. 110, one-twelfth dozen in package; balance, loose.

## BRASS.

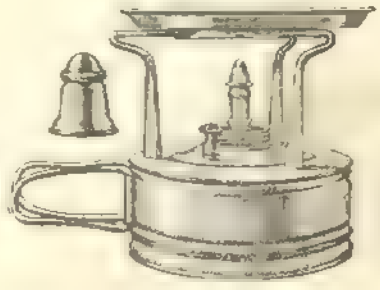


No. 800.

## ALUMINUM.

No. 960.

## FRENCH.



No. 1390.

**No. 800**—Generates and burns gas. An economical stove. Weight, 6½ lbs. Per dozen, $12 00
**No. 960**—Stove fits inside of cup when not in use. Weight, 4 lbs. " 15 00
**No. 1390**—Heavy planished tin. Brass burner and regulator. Folding handles. Weight, 9 lbs. " 18 00
Extra wicks for No. 1390. " 1 00

One-twelfth dozen in package.

# NIGHT LAMPS.

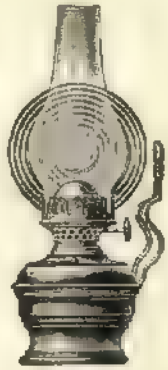
## NUTMEG.

Glass Bowl, Assorted Colors. Wire Handle.

| | |
|---|---|
| **No.** | **181** |
| Weight, lbs. | 5 |
| Per dozen | $4 00 |

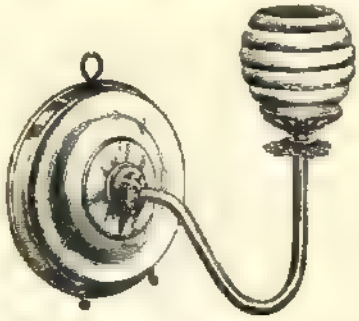
One-half dozen in box.

## LITTLE BROWNIE.



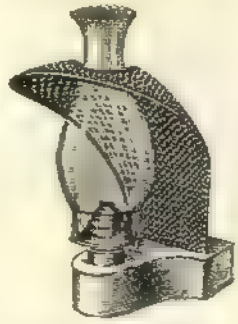
All Brass. With Reflector.

| | |
|---|---|
| **No.** | **1290** |
| Weight, lbs. | 5 |
| Per dozen | $5 00 |



Nickel-Plated Burns Thirty Hours

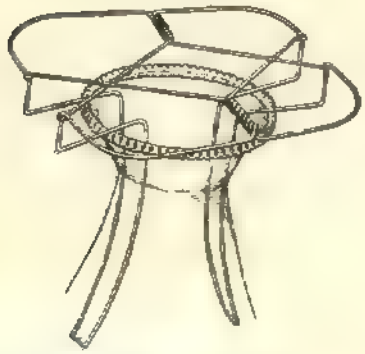
| | |
|---|---|
| **No.** | **538** |
| Weight, lbs. | 3 |
| Per dozen | $9 00 |
| Extra wicks | Per dozen, 1 25 |
| Extra white globes | " 1 25 |
| Extra red " | " 2 00 |



Large Japanned Tin Fount and Reflector.

| | |
|---|---|
| **No. 10**—Without burner and chimney. Weight, 8 lbs. | Per dozen, $ 4 00 |
| **No. 20**—With burner only. Weight, 9 lbs. | " 7 50 |
| **No. 30**— " burner, chimney and wick. Weight, 12 lbs. | " 12 00 |

# LAMP CHIMNEY HEATERS.



**No. 10**—Heavy wire. Fits any chimney. Weight, ¼ lb. Per dozen, $1.50

One dozen in package.

# GAS BURNERS.

## VESUVIUS.

**No. 1045**—Makes a blue flame. Fits any burner. Weight, 4 lbs. Per dozen, $4.00

One dozen in package.

## DAISY.

**No. 2**—Makes a blue flame. Fits any burner. Weight, 6 lbs. Per dozen, $6 00

# ALCOHOL STOVES.

## CURLING IRON HEATER.

GERMAN.

No. 3304.

AMERICAN.

No. 3306.

## MAYFLOWER.

No 1020

No 1022.

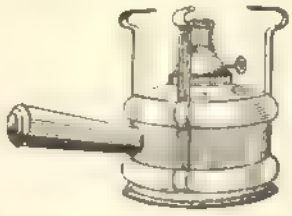
**No. 3304**—Tin. With brass screw cap. Weight, 1½ lbs..... Per dozen, $3 00
**No. 3306**—Revolving and self-extinguishing. No oil, no smut, no smell, cannot soil anything. Size, 4x1 inches. Weight, 2 lbs. " 7 50
**No. 1020**—Brass. Weight, 2½ lbs. " 3 00
**No. 1022**—Nickel-plated. With cup. Weight, 3 lbs..... " 5 00

No 3304, one-half dozen; balance, one dozen in package.

## GEM POCKET.

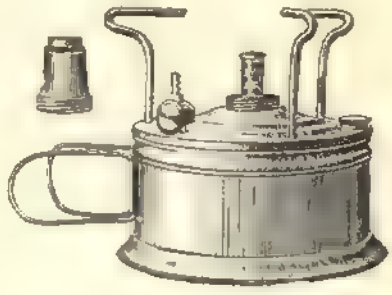
No. 110.

## GLASS.



No. 8.

## TIN.

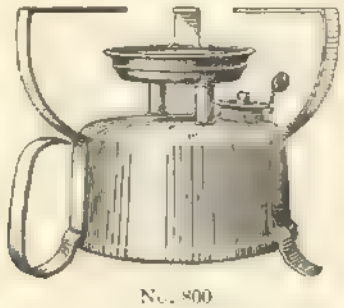


No. 20

**No. 110**—Iron folding stand. Brass bowl. Weight, 3 lbs. Per dozen, $2.00
**No. 8**—Heavy glass bowl. " burner. Flame easily regulated. Weight, 6½ lbs. " 6 00
**No. 20**—Brass burner, with regulator and folding handles. Weight, 9 lbs. " 7.50

No. 110, one-twelfth dozen in package; balance, loose.

## BRASS.

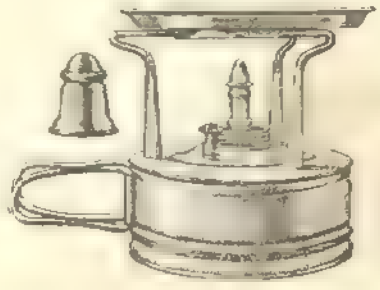


No. 800

## ALUMINUM.

No 960

## FRENCH.



No. 1390.

**No. 800**—Generates and burns gas. An economical stove. Weight, 6½ lbs. Per dozen, $12 00
**No. 960**—Stove fits inside of cup when not in use. Weight, 4 lbs. " 15 00
**No. 1390**—Heavy planished tin. Brass burner and regulator. Folding handles. Weight, 9 lbs. " 18 00
Extra wicks for No. 1390. " 1 00

One-twelfth dozen in package.

# NIGHT LAMPS.

## NUTMEG.

Glass Bowl, Assorted Colors Wire Handle

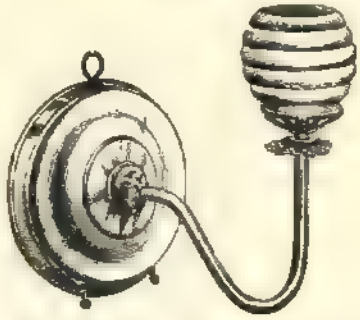
| | |
|---|---|
| **No.** | **181** |
| Weight, lbs | 5 |
| Per dozen | $4 00 |

One-half dozen in box.

## LITTLE BROWNIE.

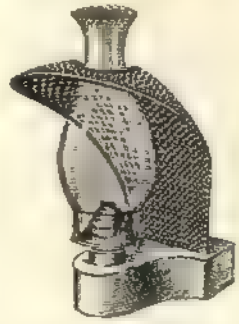
All Brass. With Reflector.

| | |
|---|---|
| **No.** | **1290** |
| Weight, lbs | 5 |
| Per dozen | $5 00 |



Nickel-Plated Burns Thirty Hours

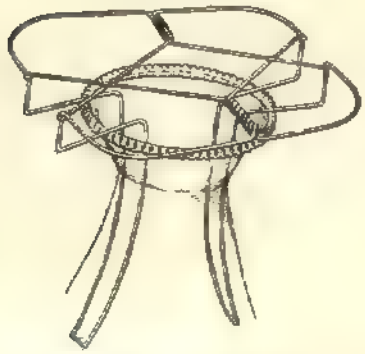
| | | |
|---|---|---|
| **No.** | | **538** |
| Weight, lbs | | 3 |
| Per dozen | | $9 00 |
| Extra wicks | Per dozen, | 1 25 |
| Extra white globes | " | 1 25 |
| Extra red " | " | 2.00 |



Large Japanned Tin Fount and Reflector.

| | |
|---|---|
| **No. 10**—Without burner and chimney. Weight, 8 lbs ...Per dozen, | $ 4 00 |
| **No. 20**—With burner only. Weight, 9 lbs..... " | 7 50 |
| **No. 30**— " burner, chimney and wick. Weight, 12 lbs..... " | 12 00 |

# LAMP CHIMNEY HEATERS.



**No. 10**—Heavy wire Fits any chimney Weight, ¼ lb. ..Per dozen, $1 50

One dozen in package.

# GAS BURNERS.

## VESUVIUS.

**No. 1045**—Makes a blue flame. Fits any burner. Weight, 4 lbs. .....Per dozen, $4.00

One dozen in package.

## DAISY.

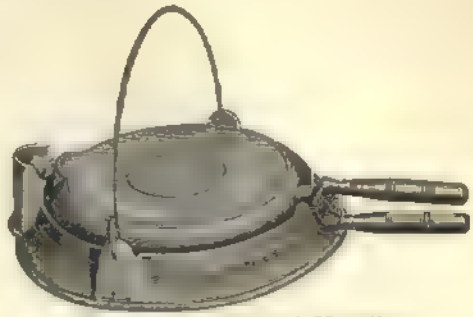
**No. 2**—Makes a blue flame Fits any burner. Weight, 6 lbs. ..... Per dozen, $6 00

# Waffle Irons.

## Common.

| No. | 8 to 9 |
|---|---|
| Weight per Dozen Net, lbs | 72 |
| Per Dozen | $12 00 |

## Patent.



Ball-Bearing, Wood Handles.

| No. | 8 to 9 |
|---|---|
| Weight per Dozen Net, lbs | 84 |
| Per Dozen | $18 00 |

# Gem Pans.

## Erie, Cast.

No. 2—Large, Round Biscuit, 11 Pans, 3¾ in. Diameter. Weight per Dozen Net, 35 lbs. Per Dozen, $6 00

No. 10—Round, Deep, 11 Pans, 2½ in. Diameter. Weight per Dozen Net, 65 lbs. Per Dozen, $7 50

No. 11—Oblong, 11 Pans, 2⅞ × 1⅜ × ¾ in. Deep, Weight per Dozen, 39 lbs. Per Dozen, $6 00

No. 22—Lady Finger, 11 Pans, 7 × 1⅝ × ⅞ in. Deep, Weight per Dozen, 54 lbs. Per Dozen, $6 00

# Dutch Ovens.

## With Legs.

Polished Inside.

| Nos. | 8 | 9 | 10 | 11 |
|---|---|---|---|---|
| Diameter Top, inch | 10 | 11 | 12½ | 13¼ |
| Capacity, quarts | 5 | 6 | 8 | 12 |
| Weight Each, lbs | 13 | 15 | 17 | 25 |
| Each | $1 75 | 2 00 | 2 50 | 3 00 |

# Sugar Kettles.

## Cast.

Made from Best Iron, Smooth Surface.

| Nos. | 5 | 6 |
|---|---|---|
| Capacity, gallon | 25 | 30 |
| Weight Each Net, lbs | 66 | 80 |
| Each | $5 00 | 6 00 |

All Above Packed as Ordered.

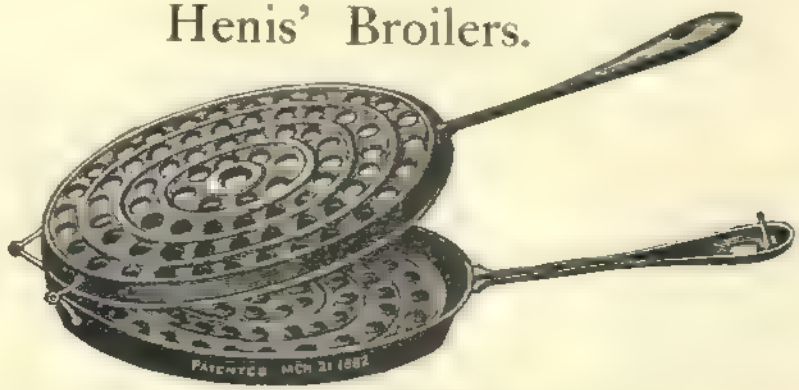
# Acme Fry Pans.

Polished Steel. Tin Covered Cool Handle, Lipped.

| Nos. | 00 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|---|
| Diameter of Top, inch | 6 | 8 | 8½ | 9 | 9½ | 10 | 11 | 12 | 13 |
| Diameter of Bottom, inch | 4½ | 6 | 6½ | 7 | 7½ | 8 | 9 | 10 | 11 |
| Weight per Dozen, lbs | 6 | 9 | 11 | 14 | 16 | 18 | 20 | 22 | 25 |
| Per Dozen | $2 50 | 3 00 | 3 75 | 4 25 | 4 75 | 5 25 | 6 00 | 7 00 | 8 00 |

Quarter Dozen in a Bundle

# Henis' Broilers.



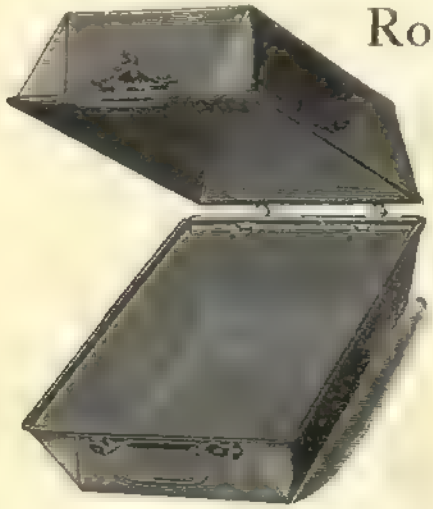

**Round, Henis' Self Basting Broiler.**

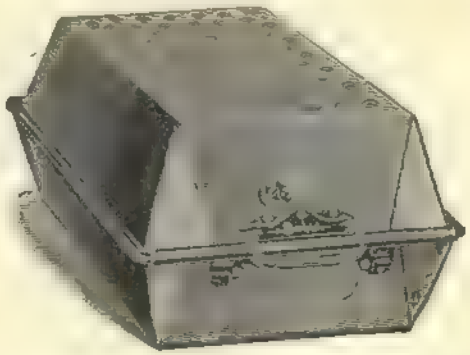
No Smoke. No Soiled Stove or Range. It Fits the Fire Hole. No More Dry, Scorched Tasteless Chops or Steaks

**No. 8**—Round, Fits No. 8 Stove Hole, Weight per Dozen, 12 lbs . . . . . Per Dozen, $ 9 00
**No. 9** " " " 9 " " " " " " 15 " . . . . . " " 12 00

# Roasting and Baking Pans.

## Self Basting.





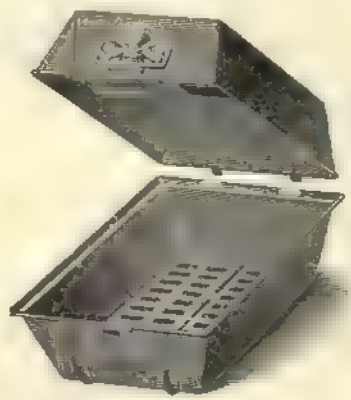
**Self Basting with Ventilator.**

Independent Top and Bottom, Refined Smooth Steel, Without Racks.

| Nos. | 09 | 010 | 011 |
|---|---|---|---|
| Size, inch | 9½×13½×6½ | 10×14½×7 | 11×16½×7½ |
| Weight per Dozen, lbs | 60 | 66 | 72 |
| Per Dozen | $10 00 | 12 00 | 14 00 |

Packed as Ordered

## Family.



**Family Roasters and Bakers.**

Independent Top and Bottom Refined Smooth Steel with Racks.

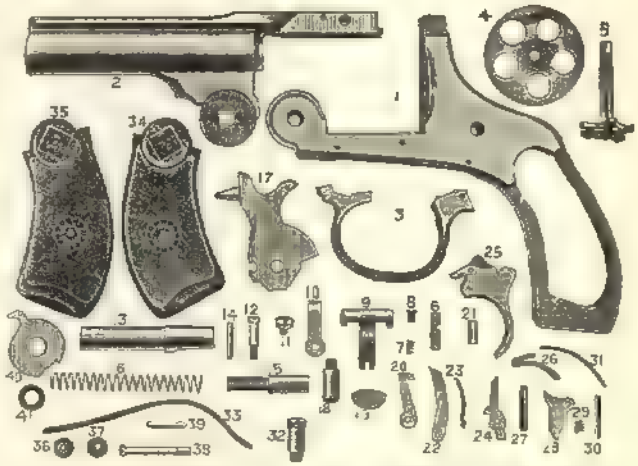
| Nos. | 111 | 121 | 131 |
|---|---|---|---|
| Size, inch | 9×13 [illegible] | 10½×15½×6½ | 13 17¾×7 |
| Weight per Dozen, lbs. | 60 | 72 | 80 |
| Per Dozen | $10 00 | 12 00 | 14 00 |

Packed as Ordered.

# COMPONENT PARTS OF HARRINGTON & RICHARDSON REVOLVERS.

## AUTOMATIC AND PREMIER.

| No. | | Each. |
|---|---|---|
| 1 | Frame | $3.00 |
| 2 | Barrel, 3½ inch | 3 00 |
| 2 | Barrel, 4 inch | 3.80 |
| 2 | Barrel, 5 inch | 4.80 |
| 3 | Guard | 1.00 |
| 4 | Cylinder, complete | 3.00 |
| 5 | Extractor | 1 00 |
| 6 | Cylinder Catch Bolt | 20 |
| 7 | Cyl. Catch Bolt Spring | 04 |
| 8 | Cyl. Catch Bolt Screw | 10 |
| 9 | Barrel Catch | .60 |
| 10 | Barrel Catch Spring | .12 |
| 11 | Barrel Catch Screw | .10 |
| 12 | Barrel Catch Spg. Screw | .10 |
| 13 | Quill | 40 |
| 14 | Quill Pin | .04 |
| 15 | Extractor Extension | .20 |
| 16 | Extractor Spring | 20 |
| 17 | Hammer | 1 00 |
| 18 | Hammer Screw | 10 |
| 19 | Sight | 10 |
| 20 | Lifter | 30 |
| 21 | Lifter Pin | $0 06 |
| 22 | Lever | .20 |
| 23 | Lever Spring | .12 |
| 24 | Cylinder Catch | .20 |
| 25 | Trigger | .80 |
| 26 | Trigger Spring | 20 |
| 27 | Trigger Pin | 04 |
| 28 | Sear | 20 |
| 29 | Sear Spring | 04 |
| 30 | Guard Pin | 04 |
| 31 | Friction Spring | .06 |
| 32 | Hinge Screw | 20 |
| 33 | Mainspring | 20 |
| 34 | Stock, Right | 20 |
| 35 | Stock, Left | 20 |
| 36 | Escutcheons' Nut | .08 |
| 37 | Escutcheons' Thread | .08 |
| 38 | Stock Screw | .10 |
| 39 | Stock Pin | 04 |
| 40 | Hook | .60 |
| 41 | Hook Spring | .20 |

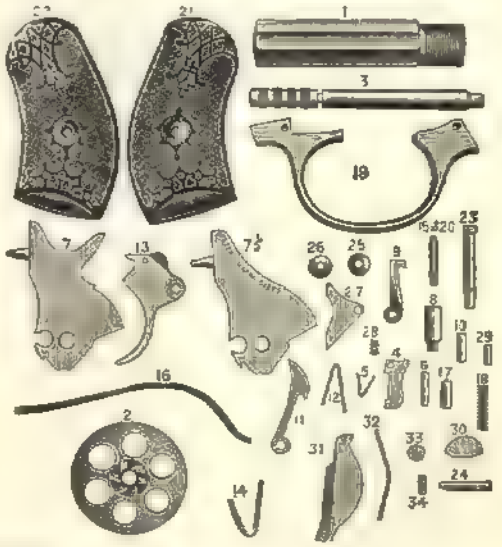


Be sure and state the caliber when ordering parts, and return broken or worn parts if possible. The prices of similar parts of the H. & R. Hammerless and Bicycle Hammerless are the same as given above, but they have the following parts in addition:

Firing Pin, $0 20, Firing Pin Spring, $0.04; Firing Pin Nut, $0.20; Cylinder Stop, Frame Part, $0 50; Frame Part Screw, $0 10; Finger Part, $0 30, Trigger Part Spring, $0.04.

## DOUBLE ACTION AND BULLDOG.

| No. | | Each. |
|---|---|---|
| 1 | Barrel, 2½ inch | $1 00 |
| 1 | Barrel, 4½ inch | 1 80 |
| 1 | Barrel, 6 inch | 2 60 |
| 2 | Cylinder | 1 00 |
| 3 | Center Pin | 20 |
| 4 | Center Pin Catch | 20 |
| 5 | Center Pin Catch Spring | 10 |
| 6 | Center Pin Catch Pin | 04 |
| 7 | Hammer | .80 |
| 7½ | Safety Hammer | 80 |
| 8 | Hammer Screw | 10 |
| 9 | Lifter | 30 |
| 10 | Lifter Pin | 04 |
| 11 | Lever | .20 |
| 12 | Lever Spring | 12 |
| 13 | Trigger | .60 |
| 14 | Trigger Spring | .20 |
| 15 | Trigger Pin | 04 |
| 16 | Mainspring | 20 |
| 17 | Friction Pin | $0.10 |
| 18 | Friction Pin Spring | .04 |
| 19 | Guard | .80 |
| 20 | Guard Pin | .04 |
| 21 | Stock, Right | .24 |
| 22 | Stock, Left | .24 |
| 23 | Stock Screw | 08 |
| 24 | Stock Pin | .04 |
| 25 | Escutcheons, Head | 08 |
| 26 | Escutcheons, Thread | 08 |
| 27 | Sear | .20 |
| 28 | Sear Spring | .04 |
| 29 | Sear Pin | .04 |
| 30 | Sight | 10 |
| 31 | Gate | 40 |
| 32 | Gate Spring | .10 |
| 33 | Gate Spring Screw | .10 |
| 34 | Gate Screw | .10 |



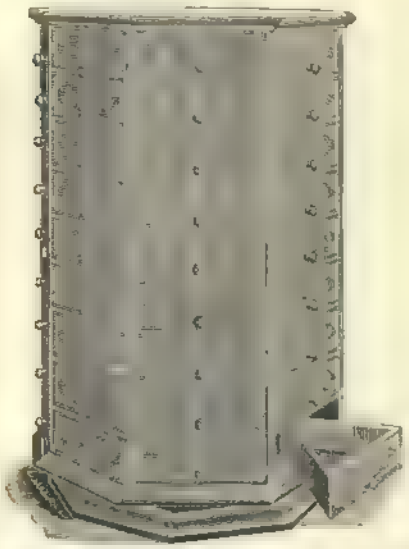
Be sure and state caliber, and when possible return old parts when ordering new ones.

# COMPONENT PARTS OF THE STEVENS RELIABLE, SINGLE SHOT AND DIAMOND MODEL PISTOLS.

| No. | | Each. |
|---|---|---|
| 72 | Hammer, with Nib on side | $0 35 |
| 73 | Sear | 30 |
| 74 | Hammer, with Nib in center | 35 |
| 75 | Extractor Spring | 20 |
| 76 | Barrel Catch and Spring | 25 |
| 77 | Mainspring | 15 |
| 78 | Extractor | .20 |
| 79 | Hammer Screw | .05 |
| 80 | Barrel Screw | $0 10 |
| 81 | Sear Screw | 05 |
| 82 | Extractor Spring Screw | 05 |
| 83 | Barrel Catch Nut | 10 |
| 84 | Sear Spring | 05 |
| | Barrels with sights, Reliable, 10 inch | 5 50 |
| | Barrels with sights, Pistol, 3½ inch | 1 50 |
| | Barrels with sights, Diamond, 6 inch | $3 50 |
| | Barrels with sights, Diamond, 10 inch | 5 50 |
| | Frame with stocks, Reliable and Diamond | 1 75 |
| | Frame with stocks, Single Shot Pistol | 1 00 |
| | Stocks alone, Reliable or Diamond | 50 |
| | Stocks alone, Single Shot Pistol | 40 |
| | Reliable Shoulder Rest | 1 00 |

# American Screw and Bolt Cases.

## Screw Cases.



NO. 1—33 in. high, 21 in. wide, 72 drawers, wt. each, 80 lbs. $18 75
NO. 2—36 in. high, 21 in. wide, 80 drawers, wt. each, 85 lbs. 21 50
NO. 3—39 in. high, 24 in. wide, 88 drawers, wt. each, 90 lbs. 23 00
NO. 4—42 in. high, 24 in. wide, 96 drawers, wt. each, 95 lbs. 25 50

No. 1 Screw Case contains drawers labeled for following Sizes of Screws:

½ in.x3, 4, 5, 6, 7.
⅝ in.x5, 6, 7, 8.
¾ in.x5, 6, 7, 8, 9.
⅞ in.x7, 8, 9, 10.
1 in.x6, 7, 8, 9, 10, 11, 12, 13, 14.
1¼ in.x7, 8, 9, 10, 11, 12, 13, 14, 15.
1½ in.x8, 9, 10, 11, 12, 13, 14, 15, 16.
1¾ in.x9, 10, 11, 12, 13, 14, 15, 16, 17.
2 in.x10, 11, 12, 13, 14, 15, 16, 17, 18.
2½ in.x12, 13, 14, 15, 16.
3 in.x16, 18, 20, 22

No. 2 Screw Case contains drawers labeled for following Sizes of Screws:

⅜ in.x2, 3, 4
½ in.x3, 4, 5, 6, 7
⅝ in.x4, 5, 6, 7, 8
¾ in.x4, 5, 6, 7, 8, 9, 10
⅞ in.x6, 7, 8, 9, 10, 11.
1 in.x6, 7, 8, 9, 10, 11, 12, 13, 14.
1¼ in.x7, 8, 9, 10, 11, 12, 13, 14, 15.
1½ in.x8, 9, 10, 11, 12, 13, 14, 15, 16.
1¾ in.x9, 10, 11, 12, 13, 14, 15, 16, 17.
2 in.x10, 11, 12, 13, 14, 15, 16, 17, 18.
2½ in.x12, 13, 14, 15, 16.
3 in.x16, 18, 20, 22.

No. 3 Screw Case contains drawers labeled for following Sizes of Screws:

½ in.x1, 2
⅜ in.x2, 3, 4, 5
½ in.x3, 4, 5, 6, 7
⅝ in.x4, 5, 6, 7, 8, 9.
¾ in.x4, 5, 6, 7, 8, 9, 10
⅞ in.x6, 7, 8, 9, 10, 11, 12
1 in.x6, 7, 8, 9, 10, 11, 12, 13, 14, 15
1¼ in.x7, 8, 9, 10, 11, 12, 13, 14, 15, 16.
1½ in.x8, 9, 10, 11, 12, 13, 14, 15, 16
1¾ in.x9, 10, 11, 12, 13, 14, 15, 16, 17, 18.
2 in.x10, 11, 12, 13, 14, 15, 16, 17, 18
2½ in.x12, 13, 14, 15, 16.
3 in.x16, 18, 20, 22

No. 4 Screw Case contains drawers labeled for following Sizes of Screws:

¼ in.x1, 2.
⅜ in.x2, 3, 4, 5, 6.
½ in.x3, 4, 5, 6, 7, 8.
⅝ in.x4, 5, 6, 7, 8, 9, 10, 11.
¾ in.x4, 5, 6, 7, 8, 9, 10, 11, 12.
⅞ in.x6, 7, 8, 9, 10, 11, 12.
1 in.x6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.
1¼ in.x7, 8, 9, 10, 11, 12, 13, 14, 15.
1½ in.x8, 9, 10, 11, 12, 13, 14, 15 16.
1¾ in.x9, 10, 11, 12, 13, 14, 15, 16, 17.
2 in.x10, 11, 12, 13, 14, 15, 16, 17, 18.
2½ in.x12, 13, 14, 15, 16.
3 in.x16, 18, 20, 22
3½ in.x16, 18, 20.

## Bolt Cases.

NO. 1—Bolt Case, 46 in. high, 26 in. wide, 98 drawers, wt. each, 250 lbs. ..... $37 00
NO. 2—Bolt Case, 50 in. high, 36 in. wide, 104 drawers, wt. each, 300 lbs. ..... 41 00

No. 1 Bolt Case contains drawers labeled for following Sizes of Bolts:

### Tire Bolts.

⅜ in.x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3
½ in.x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3
⅝ in.x2, 2¼, 2½

### Carriage Bolts.

¼ in.x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5.
⅝ in.x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5¼, 5½, 6.
⅜ in.x2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 5, 6.
⅞ in.x2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 8, 9, 10.
½ in.x2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 8, 9, 10, 11, 12.

No. 2 Bolt Case contains drawers labeled for following Sizes of Bolts

### Tire Bolts.

⅜ in.x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3
½ in.x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3
⅝ in.x2, 2¼, 2½.

### Carriage Bolts.

¼ in.x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5.
⅝ in.x1¼, 1½, 1¾, 2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5¼, 5½, 6.
⅜ in.x2, 2¼, 2½, 2¾, 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 5, 6
⅞ in.x2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10.
½ in.x2, 2½, 3, 3½, 4, 4½, 5, 5½, 6, 6½, 7, 7½, 8, 8½, 9, 9½, 10, 11, 12.

The Drawers are all provided with Stops to prevent their removal from the Case. Each Drawer holds a package of Bolts or Screws of the Size and Number indicated on the Front of the Drawers. Numbers on Bolt and Screw Cases changed to suit Purchasers, without Extra Charge.

# FIELDERS' GLOVES.

## HERCULES BRAND.

No. 1005.

Nos. 1003 and 1007.

Nos. 2000 and 2001.

Nos. 2002 and 2003.

**No. 1005**—Boys', made of yellow tanned leather, padded palm and front fingers, crescent roll..... Per dozen, $ 7.50
**No. 1003**— " " " green Napa leather, lined with good quality felt throughout, crescent pad, leather bound, button wrist ..... " 8 75
**No. 1007**—Boys', made of drab buckskin selected, welted seams, lined with highest quality wool felt, crescent roll on palm, leather bound ..... " 24 00
**No. 2000**—Men's, made of yellow leather, palm and fingers felt lined and padded, fabric bound, button wrist. ..... " 4 50
**No. 2001**— " " " " green Napa leather, palm and fingers well padded with felt, fabric bound, button wrist..... " 5 00
**No. 2002**— " " " " " " " " " felt lined and padded, crescent roll, fabric bound, button wrist ..... " 6 75
**No. 2003**—Men's, made of Craven Napa leather, lined throughout with felt, palm well padded, crescent roll, leather bound, button wrist..... " 10 25

Nos. 2005, 2007 and 2009.

No. 2006.

No. 2008

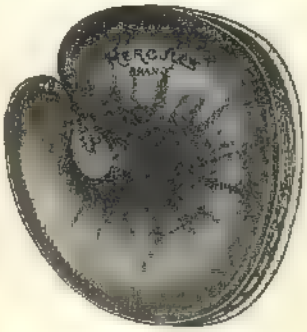
No. 2011.

**No. 2005**—Men's, made of green Napa leather, lined throughout with good quality felt, palm well padded, crescent roll, leather bound, button wrist ..... Per dozen, $12 00
**No. 2006**—Men's, made of olive Napa leather, lined throughout with good quality felt, well padded palm, crescent roll, extra finger tips made of drab calfskin, leather bound, button wrist.. ..... " 7 50
**No. 2007**—Men's, made of tan color Yucatan leather, welted seams, lined throughout with good quality felt, palm well padded, crescent roll, leather bound, button wrist... ..... " 19 25
**No. 2008**—Men's, made of drab smoked calfskin, outside seams, extra calfskin finger tips, lined throughout with good quality felt, well padded palm, crescent pad, leather bound, button wrist... ..... " 25 50
**No. 2009**—Men's, made of drab buckskin, lined throughout with good quality felt, correctly padded palm and fingers, crescent roll, welted seams, leather bound, button wrist..... " 34 50
**No. 2011**—Men's, professional pattern, made of selected drab buckskin, lined throughout with best quality wool felt, correctly padded fingers and palm improved crescent roll, welted seams, leather bound, button wrist, used by all the leading baseball players..... " 60 00

# CATCHERS' MITTS

## HERCULES BRAND.

Nos 5011 and 5012.




No. 5014

No 5015.

**No. 5011**—Men s, made throughout of special tanned drab calfskin, correctly padded palm, deep pocket and crescent roll, sole leather stiffener over finger tops, calfskin edge band, laced bottom feature, thumb thong stitched to mitt, laced fastener.. .....Each, $6.00

**No. 5012**—Men's, large size, palm made of brown buckskin with deep pocket and improved crescent roll, balance made of drab buckskin, sole leather suffener over finger tops, calfskin edge strip, thumb thong stitched to mitt, laced bottom feature, laced fastener.....Each, 6.75

**No. 5014**—Men's, extra large size palm and fingers made of selected brown velvet tanned buckskin, correctly padded palm, deep pocket and improved full crescent roll, sole leather stiffener over finger tops, calfskin edge strip, leather bound edges, laced bottom feature, double stitched throughout.....Each, 8.25

**No. 5015**—Men's, extra large size, made throughout of tan color selected Russia calfskin, palm correctly padded with best grade felt, deep pocket and improved crescent roll, sole leather stiffener over finger tops, thumb thong stitched to mitt, leather bound edges, laced bottom feature, double stitched throughout.....Each, 9.00

# BASEMEN'S MITTS.

## HERCULES BRAND.

No. 3000.

Nos. 3001 and 3002

No 3003.

**No. 3000**—Youths', made of red brown leather, stitched fingers, well padded, laced fastener .. . .Per dozen, $10 00

**No. 3001**—Men's, made of olive Yucatan leather, solid back and fingers, crescent roll well padded, laced fastener thumb stitched to mitt.....Per dozen, 19.50

**No. 3002**—Men's, made of drab buckskin, covered back and fingers, correctly padded palm and crescent roll, leather bound, laced fastener .....Per dozen, 28.50

**No. 3003**—Men's Professional, made of selected brown buckskin, welted seams, deep pocket, correctly padded palm and crescent roll, covered back and fingers, leather bound seams, laced fastener .....Per dozen, 39.00

# FIELDERS' GLOVES.

## HERCULES BRAND.

No. 1005.

Nos. 1003 and 1007.

Nos. 2000 and 2001.

Nos. 2002 and 2003.

**No. 1005**—Boys', made of yellow tanned leather, padded palm and front fingers, crescent roll ..... Per dozen $ 7.50
**No. 1003**— " " " green Napa leather, lined with good quality felt throughout, crescent pad, leather bound, button wrist. ..... " 8 75
**No. 1007**—Boys', made of drab buckskin selected, welted seams, lined with highest quality wool felt, crescent roll on palm, leather bound ..... " 24 00
**No. 2000**—Men's, made of yellow leather, palm and fingers felt lined and padded, fabric bound, button wrist. ..... " 4 50
**No. 2001** - " " " green Napa leather, palm and fingers well padded with felt, fabric bound, button wrist..... " 5 00
**No. 2002**— " " " " " " " " " felt lined and padded, crescent roll, fabric bound, button wrist ..... " 6 75
**No. 2003**—Men's, made of Craven Napa leather, lined throughout with felt, palm well padded, crescent roll, leather bound, button wrist..... " 10 25

Nos. 2005, 2007 and 2009.

No. 2006

No. 2008

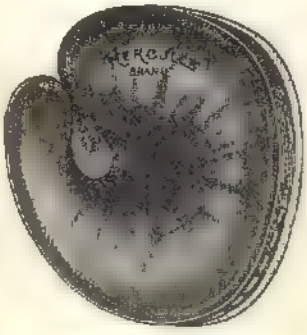
No. 2011.

**No. 2005**—Men's, made of green Napa leather, lined throughout with good quality felt, palm well padded, crescent roll, leather bound, button wrist ..... Per dozen, $12 00
**No. 2006**—Men's, made of olive Napa leather, lined throughout with good quality felt, well padded palm, crescent roll, extra finger tips made of drab calfskin, leather bound, button wrist.. ..... " 7 50
**No. 2007**—Men's, made of tan color Yucatan leather, welted seams, lined throughout with good quality felt, palm well padded, crescent roll, leather bound, button wrist... ..... 10 25
**No. 2008**—Men's, made of drab smoked calfskin, outside seams, extra calfskin finger tips, lined throughout with good quality felt, well padded palm, crescent pad, leather bound, button wrist. ..... " 25 50
**No. 2009**—Men's, made of drab buckskin, lined throughout with good quality felt, correctly padded palm and fingers, crescent roll, welted seams, leather bound, button wrist..... 54 50
**No. 2011**—Men's, professional pattern, made of selected drab buckskin, lined throughout with best quality wool felt, correctly padded fingers and palm improved crescent roll, welted seams, leather bound, button wrist, used by all the leading baseball players..... 60 00

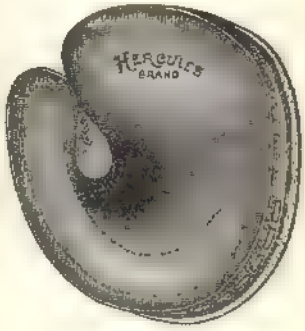
# CATCHERS' MITTS

## HERCULES BRAND.

Nos 5011 and 5012.




No. 5014.




No. 5015.

**No. 5011** Men's, made throughout of special tanned drab calfskin, correctly padded palm, deep pocket and crescent roll, sole leather stiffener over finger tops, calfskin edge band, laced bottom feature, thumb thong stitched to mitt, laced fastener.....Each, $6.00

**No. 5012**—Men's, large size, palm made of brown buckskin with deep pocket and improved crescent roll, balance made of drab buckskin, sole leather stiffener over finger tops, calfskin edge strip, thumb thong stitched to mitt, laced bottom feature, laced fastener.....Each, 6.75

**No. 5014**—Men's, extra large size palm and fingers made of selected brown velvet tanned buckskin, correctly padded palm, deep pocket and improved full crescent roll, sole leather suffener over finger tops, calfskin edge strip, leather bound edges, laced bottom feature, double stitched throughout.....Each, 8.25

**No. 5015**—Men's, extra large size, made throughout of tan color selected Russia calfskin, palm correctly padded with best grade felt, deep pocket and improved crescent roll, sole leather stiffener over finger tops, thumb thong stitched to mitt, leather bound edges, laced bottom feature, double stitched throughout.....Each, 9.00

# BASEMEN'S MITTS.

## HERCULES BRAND.

No. 3000.

Nos. 3001 and 3002

No. 3003.

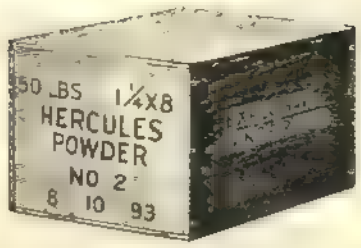
**No. 3000**—Youths', made of red brown leather, stitched fingers, well padded, laced fastener.....Per dozen, $10 00

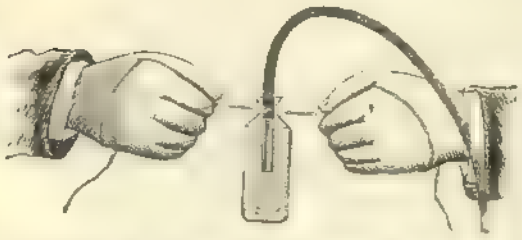
**No. 3001**—Men's, made of olive Yucatan leather, solid back and fingers, crescent roll, well padded, laced fastener, thumb stitched to mitt.....Per dozen, 19.50

**No. 3002**—Men's, made of drab buckskin, covered back and fingers, correctly padded palm and crescent roll, leather bound, laced fastener.....Per dozen, 28.50

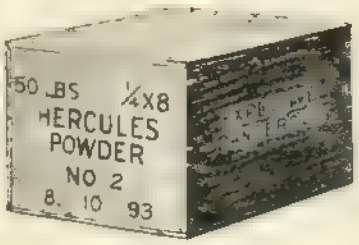
**No. 3003**—Men's Professional, made of selected brown buckskin, welted seams, deep pocket, correctly padded palm and crescent roll, covered back and fingers, leather bound seams, laced fastener.....Per dozen, 39.00

# Hercules Dynamite.



Showing the Method of Preparing a Cartridge



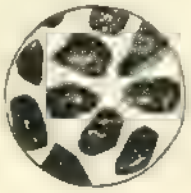

| | | | | | |
|---|---|---|---|---|---|
| **No. 1** | **Dynamite**—8 | 70 | Per Cent Nitro Glycerine. | 50 lb Cases | Per Pound |
| **No. 1*** | **Dynamite**—8 | 60 | " " " | 25, 50 " " | |
| **No. 1**** | **Dynamite**—8 | 50 | " " " | 50 " | |
| **No. 2** | **Dynamite**—8 × 1¼ | 40 | " " " | 10, 25, 50 " | |
| **No. 2** | **Dynamite**—8 1¼ | 40 | " " | 50 | |
| **No. 2*** | **Dynamite**—8 × 1¼ | 35 | " " | 10, 25, 50 " | |
| **No. 2**** | **Dynamite**—8 | 30 | " | 50 | |
| **No. 2**** | **Dynamite**—8 × 1¼ | 30 | " " | 50 | |
| **No. 3** | **Dynamite**—8 | 25 | " | 50 | |

Prices on Application

No. 1 Suitable for the Hardest and Toughest Rocks and Ores, for Breaking Boulders and for Submarine Work
No. 2 is the Most Economical for Average Blasting
No. 3 is Suitable for Coal Blasting and Brittle Rocks in which a Comparatively Slow Action is Most Effective

# Blasting Powder.

F



FF

FFF

**Blasting Powder**—Blasting in 25 lb. Metal Kegs, F, FF, FFF.....Per Keg,
**Champion Improved**—In Grain, 50 lb. Cases.....Per Pound.

Prices on Application

# Blasting Caps.

**No. XXX**— 100 in Tin Box.....Per Box, $.....
**No. XXXX** " " " " " "

Prices on Application.

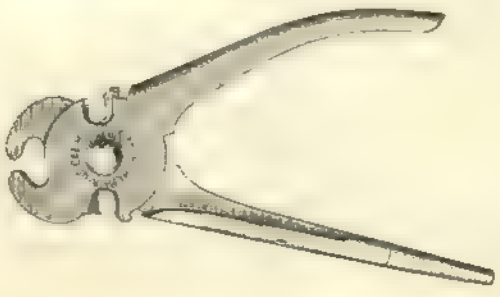
# Electric Exploders.

**Electric Exploders**—Length, 6 ft. .....Per 100, $6 00

# Fuse.

**Double Tape**—Weight per Case, 130 lbs., 6000 ft. in a Case.....Per 1000 Feet, $10 00

**Triple Tape**—Weight per Case, 138 lbs., 6000 ft. in a Case, .....Per 1000 Feet, 12 50



# Fuse Cutter and Cap Crimper.

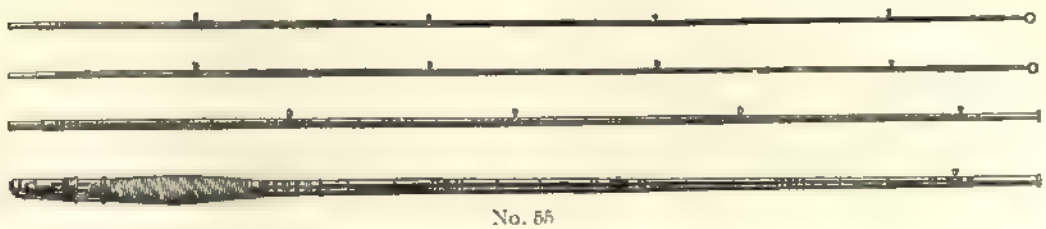
All Steel, Nickel Plated.

**No 1**—Length 5½ in .....Per Dozen, $12 00

Half Dozen in a Box.

# SPLIT BAMBOO RODS.

## FLY.



No. 55

**No. 62**—Three-piece and extra tip. Length, 9½ to 10½ feet. Celluloid grip. Full nickel-plated mountings. Silk-wound rings and keepers. Metal reel seat. Finely finished. Each rod on felt-covered wood form..... Each, $ 3.30

**No. 290**—Three-piece and extra tip. Length, 9½ to 10½ feet. Cork grip. Full nickel-plated mountings. Handsomely silk wrapped. Plain ferrules. Metal reel seat. Each rod on flannel-covered wood form..... " 3 30

**No. 52**—Three-piece and extra tip. Length, 9½ to 10 feet. Cork grip. Full nickel-plated mountings. Solid reel seat. Closely wrapped with colored silk. Handsomely finished. Each rod on cloth-covered wood form..... " 3.70

**No. 48**—Same as No. 52. With inlaid butt..... " 4.50

**No. 55**—Three-piece and extra tip. Length, 9½ to 10½ feet. Black and white celluloid grip. Nickel-plated mountings. Solid metal reel seat. Silk-wound at close intervals. Each rod on cloth-covered wood form..... " 5.40

**No. 64**—Three-piece and extra tip. Length, 9½ to 10½ feet. Cork grip. Nickel-plated mountings. Rimmed ferrules. Solid metal reel seat. Green and red silk-wound at close intervals. Each rod on cloth-covered wood form..... " 5 60

**No. 293**—Three-piece and extra tip. Length, 9½ to 10½ feet. Cork grip. Oxidized mountings and reel seat. Snake guides. Red and black silk-wound at close intervals. Each rod on cloth-covered wood form..... " 6.00

**No. 65**—Three-piece. Length, 9½ to 10½ feet. Made of prime bright Calcutta bamboo. Six strips. Cork grip. Full nickel-plated mountings. Welted ferrules. Patent water-tight reel plate. Rings and keepers. Wound with green and gold silk. Each rod on flannel-covered wood form and in canvas cover..... " 6.50

**No. 58**—Three-piece and extra tip. Length 9¾ to 10½ feet. Cork grip. Nickel mountings. Inlaid cedar butt. Rimmed ferrules. Closely wrapped with assorted colored silk. Each rod on cloth-covered wood form..... " 7.00

**No. 292**—Very light. Three-piece and extra tip. Length, 9½ to 10½ feet. Cork grip. Oxidized mountings and reel seat. Snake tie guides. Wrapped with colored silk at close intervals. Each rod on cloth-covered wood form..... " 7 20

**No. 304**—Round. Three-piece and extra tip. Length, 9½ to 10½ feet. Cork grip. Full nickel-plated mountings. Rimmed ferrules. Wrapped with assorted colored silk at close intervals. Each rod on flannel covered wood form..... " 7.50

**No. 72**—Three-piece and extra tip. Length, 9½ to 10½ feet. Cork grip. Oxidized mountings and reel seat. Snake guides. Silk-wound at close intervals. Finely finished. Each rod on velvet-covered wood form and in cloth bag..... " 7.50

**No. 74**—Three-piece and extra tip. Length, 9½ to 10½ feet. Cork grip. Oxidized mountings and reel seat. Snake guides. Fancy colored silk-wound at very close intervals. Each rod on velvet-covered wood form and in cloth bag..... " 10 00

No. 62B.

**No. 62 B**—Three-piece and extra tip. Length, 9½ to 10½ feet. Celluloid grip. Full nickel-plated mountings and reel seat. Silk wound. Rings and keepers. Each rod on felt-covered wood form..... Each, $3.30

**No. 64 B**—Three-piece and extra tip. Length, 9½ to 10½ feet. Cork grip. Nickel-plated mountings and reel seat. Rimmed ferrules. Green and red silk-wound at close intervals. Each rod on cloth-covered wood form..... " 5.60

# RODS.

## HIGH GRADE SPLIT BAMBOO.

No. 49.

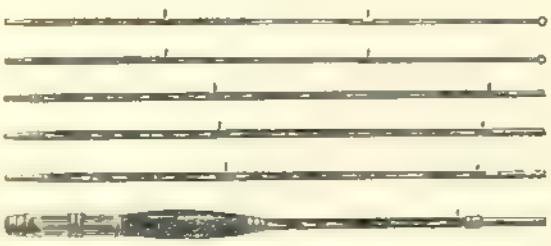
**No. 71**—Three-piece and extra tip. Length, 9½ to 10½ feet. Inlaid cedar butt. Cork grip. Welted and rimmed ferrules. Closely wrapped with red and black silk. Each rod on cloth-covered wood form ..... Each, $ 9 00

**No. 73**—Three piece and extra tip. Length 9½ to 10½ feet. Cork grip. German silver mountings. Welted and rimmed ferrules. Solid reel seat. Finely wrapped. Handsomely finished and varnished. Each rod on velvet covered wood form and in cloth bag ..... " 13.00

**No. 75**—Same as No. 73. Spiral wrappings ..... " 14 00

**No. 49**—Three piece and extra tip. Length, 9½ to 10½ feet. Light six-strip fly rod. Cork grip. Each strip thoroughly tested and beautifully finished. Full german silver mountings and reel seat. Rimmed ferrules. Artistically wrapped with assorted colored silk. Each rod on black velvet grooved form and in cloth bag ..... " 18.00

## TRUNK.



No. 132

## VALISE.

No. 125.

### TRUNK

**No. 130**—Split bamboo. Four-piece. Six strip. Length, 10 feet. Cork grip. Nickel-plated mountings. Solid metal reel seat. Silk-wound rings and keepers. Well varnished. Each rod on wooden form and in cloth bag ..... Each, $ 1.80

**No. 131**—Split bamboo. Four piece and extra tip. Length, 10 feet. Cork grip. Full nickel plated mountings. Solid metal reel seat. Silk-wound. Finely finished. Each rod in cloth partition bag ..... " 2 50

**No. 133**—Split bamboo. Four-piece and extra tip. Length, 10 feet. Cork grip. Full nickel mountings. Solid metal reel seat. Wound at close intervals with red and black silk. Each rod in cloth partition bag ..... " 3.00

**No. 132**—Selected split bamboo. Five-piece and extra tip. Length, 10 feet. Cork grip. Full nickel-plated mountings. Solid metal reel seat. Silk-wound rings and keepers. Finely finished and varnished. Each rod in cloth partition bag ..... " 5 50

**No. 134**—Split bamboo. Five-piece and extra tip. Length, 10 feet. Cork grip. Full nickel mountings. Welted ferrules. Solid metal reel seat. Silk-wound rings and keepers. Finely varnished. Each rod in cloth partition bag ..... " 6 50

**No. 135**—Same as No. 134. Selected split bamboo. Six-piece. Length, 9½ feet. Each rod in canvas partition bag ..... " 11 00

**No. 128**—Lancewood. Five-piece. Length, 10 feet. Brass mountings. Reel bands. Double ferrules and guides. Dark color " 1 50

### VALISE.

**No. 125**—Fine lancewood. Seven-piece and extra tip. Celluloid grip. Nickel-plated mountings. Solid metal reel seat. This rod can be easily carried in a valise or on a bicycle ..... Each, $5.50

PACIFIC HARDWARE & STEEL COMPANY

# HITCHING POSTS AND WEIGHTS.

BALL.

HORSE HEAD.

## WEIGHTS.

| Pounds | 10 | 15 | 20 | 25 | 30 |
|---|---|---|---|---|---|
| Each | $0.75 | 1 10 | 1.50 | 1 75 | 2 00 |

## POSTS.

### BALL PATTERN.

| | |
|---|---|
| Length, above base | 3 feet 5 inches |
| Length, below " | 1 foot 5 " |
| Weight, lbs. | 24 |
| Each | $6.00 |

### HORSE HEAD.

| | |
|---|---|
| Length, above base | 3 feet 5½ inches |
| Length, below " | 1 foot 5 " |
| Weight, lbs. | 27 |
| Each | $8 00 |

# ROW LOCKS.

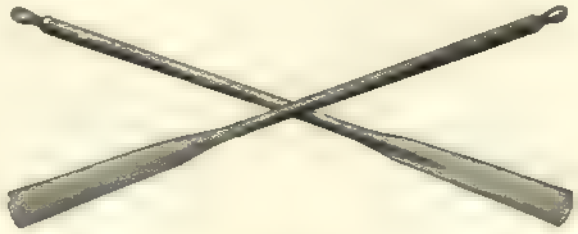
Cast Iron. Galvanized. With Socket.

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Opening, inch. | 2 | 2¼ | 2½ |
| Weight, lbs. | 1 | 1¼ | 2¾ |
| Per pair | $0 25 | .35 | .45 |

Malleable Iron. Galvanized. With Socket.

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Opening, inch. | 2 | 2¼ | 2½ |
| Weight, lbs. | 1¼ | 2 | 3 |
| Per pair | $0 45 | .55 | .65 |

# OARS.



Best Quality Selected Ash.

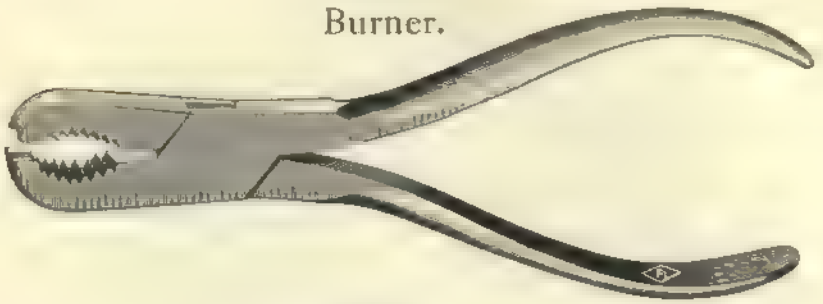
| Length, feet | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|
| Weight, per pair | 6½ | 8 | 10 | 12½ | 14 | 15 | 23 |
| Per foot | $0.20 | .20 | .20 | .20 | .22 | .22 | 22 |

| Length, feet | 13 | 14 | 15 | 16 | 17 | 18 |
|---|---|---|---|---|---|---|
| Weight, per pair | 27 | 31 | 33 | 38 | 43 | 51 |
| Per foot | $0 25 | .25 | .25 | .25 | .29 | .29 |

Copper tipped, advance per foot, $0.05

# Pliers.

## Burner.

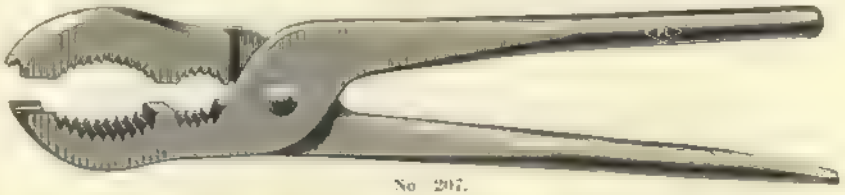


No. 206

Solid Cast Steel of Superior Quality, Oil Tempered. Full Polished.

| | | | |
|---|---|---|---|
| **Length, inch** | 5 | | **6** |
| Weight per Dozen, lbs | 3 | | 4½ |
| Per Dozen | $6 00 | | 8 00 |

## Gas.



No. 207.

Solid Cast Steel of Superior Quality, Oil Tempered.

| | | | |
|---|---|---|---|
| **Length, inch** | **8** | **10** | **12** |
| Weight per Dozen, lbs | 5 | 7½ | 9½ |
| Per Dozen | $8 25 | 10 70 | 13 00 |

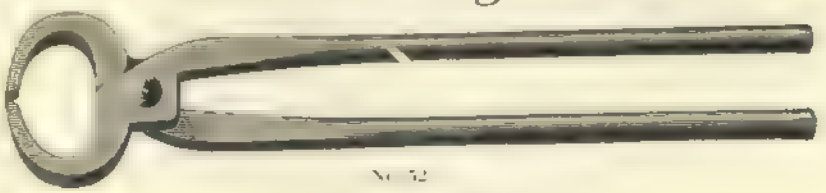
# Carpenters' Pincers.

No. 40. Half Size Cut of 8-Inch.

Wrought Polished Jaws.

| | | | | |
|---|---|---|---|---|
| **Length, inch** | **6** | **8** | **10** | **12** |
| Weight per Dozen, lbs | 6½ | 11 | 16 | 22 |
| Per Dozen | $4 00 | 4 80 | 6 00 | 6 80 |

# Horse Shoeing Pincers.



No. 52

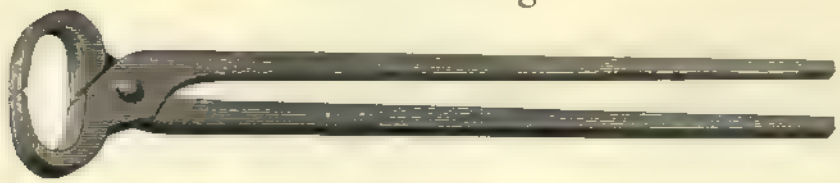
All Steel, Polished Jaws.

| | | | |
|---|---|---|---|
| **Length, inch** | **10** | **12** | **14** |
| Weight per Dozen, lbs | 22 | 28 | 30 |
| Per Dozen | $15 50 | 17 40 | 19 30 |

All Above Half Dozen in a Box.

# Nippers.

## Hoof Cutting.



No. 32

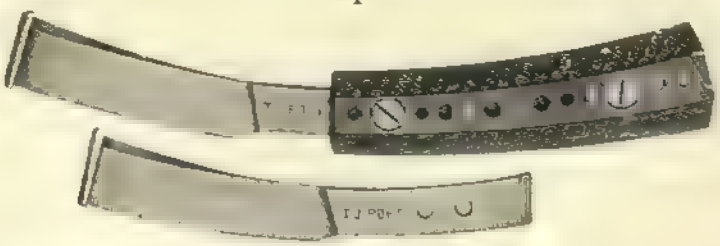
**Solid Cast Steel, Polished Jaws.**

**No. 32**—12 inch, Weight per Dozen, 17 lbs.....Per Dozen, $24 00
**No. 32**—14 " " " " 20 " ..... " " 26 00

Half Dozen in a Box.

# Farriers' Knives.

## Pope's.

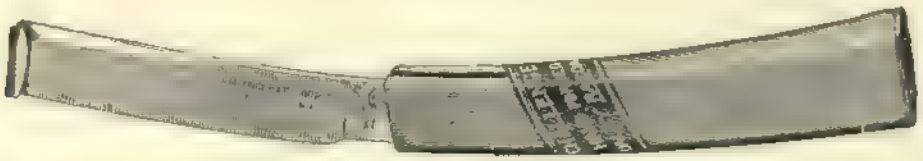


No. 1.

**No. 1**—Pope's Iron Handle, Cast Steel Blades, ½, ⅝ and ¾ in. . . . . Per Dozen, $5 50
Extra Blades..... ½, ⅝ " ¾ " . . . . . " " 3 50

Half Dozen in a Box.

## Challenge.



The Blades are forged from the finest razor steel, and are carefully set, so that they all hang perfectly Every knife is warranted.

**Challenge**—Maple Wood Handle, Blades ½, ⅝ and ¾ in . . . . . Per Dozen, $5 00

Half Dozen in a Box.

## Wostenholm's.

I. X. L. Genuine.

**I. X. L.**—Wostenholm's Bone Handle, ½, ⅝ and ¾ in .....Per Dozen, $6 00

Half Dozen in a Box.

# Wood's Ice Tools.

## Ice Hooks.

No. 100.

**No. 100**—With 4-foot Turned Ash Handles, Weight per Dozen Net, 36 lbs . . . . Per Dozen, $18 50

## Ice Saws.

No. 159.

**No. 159**—Wood Handle, 30 in. Blade, Weight Each, 2½ lbs . . . . . Each, $2 50

No. 159½

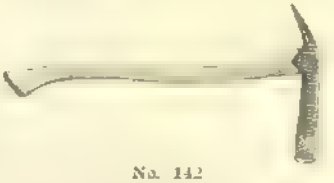
**No. 159½**—Hollow, Malleable Iron Handle, 30 in. Blade, Weight Each, 2½ lbs. . . . . Each, $2 50

## Ice Shaver.

No. 161

**No. 161**—Length 3 ft. 7 in., Blade 7½ x 4¾ in., Weight Each Net, 4 lbs. . . . . Each, $4 50

## Boston Ice Axe.



No. 142

**No. 142**—Length of Handle 30 in., Blade 1⅝ in. Wide, Weight Each Net, 4 lbs . . . . Each, $3 25

## Ice Tongs.

### Hollow Handle.

No. 115½.

**No. 115½**—Hollow Handles, Steel Bows, Tool Steel Points.
13 inch Per Pair, $2 50
15 " " " " 2 75

### Edging-Up Tongs.

No. 122.

**No. 122**—All Steel, Weight per Pair Net, 4 lbs. . . . . Per Pair, $3 00

### Chain Tongs.

No. 120.

**No. 120**—Steel Arms, Best Tool Steel Points, 12 in . . . . . Per Pair, $1 75

## Hoisting Tongs.

No. 1.

The Adjustable Hands used on No. 1 style are forged solid from steel, and are of skeleton shape, giving a sure grip on uneven cakes of ice.

The Stationary Solid Claw used on No. 2 will also hold firmly.

**No. 1** Hoisting Tongs, With Adjustable Hands, All Steel, Weight per Pair Net, 21½ lbs. . . . . Per Pair, $12 00

**No. 2**—Hoisting Tongs, With Solid Points, All Steel, Weight per Pair Net, 18½ lbs . . . . . Per Pair, 9 00

Used for hoisting ice directly from the water to the platform, in the absence of an incline, or for lowering ice from houses, for loading vessels, etc.

No. 2.

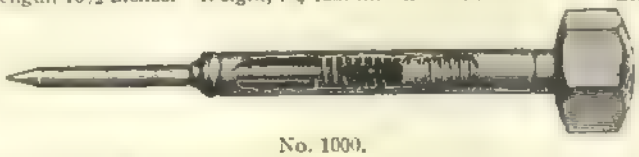
# ICE PICKS.

No. 393.

No. 392½.

**No. 393**—Cast steel pick. Iron handle. Length, 7½ inches. Weight, 6½ lbs.....Per dozen, $1.75
**No. 392½**—Polished steel pick. Oak handle, with cast nickeled cap. Length, 10½ inches. Weight, 7¼ lbs. " 2.50

No. 18.



No. 1000.

**No. 18**—Cast steel. Sliding pick. Japanned hollow iron handle. Length, 9 inches. Weight, 6 lbs.....Per dozen, $3.50
**No. 1000**—Automatic. Nickel-plated. Brass spring which allows the pick to be placed on the ice so that any size piece can be broken. Length, 9 inches. Weight, 5½ lbs. " 6.00

One dozen in box.

# ICE CHIPPERS.

No. 100.

No. 390

**No. 100**—Tinned steel. Wood handle. Length, 10 inches. Weight, 10½ lbs.....Per dozen, $3 50
**No. 390**—Cast steel blade. " " Nickel-plated caps. Length, 10½ inches. Weight 8½ lbs. " 3 00

No. 100, one dozen; No. 390, one-half dozen in box.

# ICE SHAVES.

No. 290.

**No. 290**—Retinned cast box, 2x6x2¼ inches. Adjustable steel knife. Weight, 23 lbs.....Per dozen, $9 00
One-half dozen in box.

**No. 52**—Hardwood base. Nickel-plated legs. Galvanized top. Adjustable steel knife. Size, 6x14¾x7½ inches. Weight, 8½ lbs. Each, $2.50
One in box.

No. 52.

# ICE TONGS.

Nos. 10 to 30.

Wrought Steel. Tempered Points.

**No. 10**—Opens 18 inches. Weight, 20 lbs.....Per dozen, $ 9 00
**No. 20**— " 20 " " " 28 " " 12 00
**No. 30**— " 24 " " " 48 " " 18 00

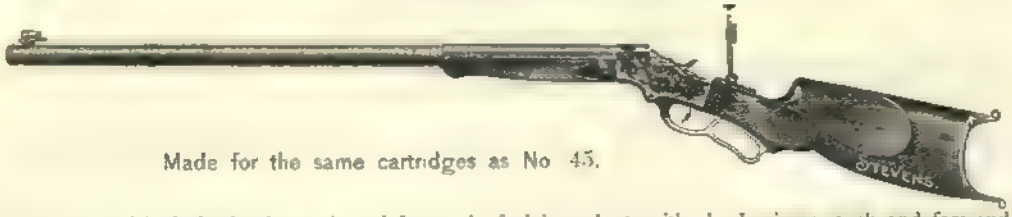
Drop Forged. No Welding. Swe led Handles.

**No. 1**—Opens 12 inches. Weight, 15 lbs.....Per dozen, $16 00
**No. 2**— " 17 " " " 54 " " 18 00
**No. 3**— " 24 " " " 97 " " 21 60

Nos. 1 to 3.

# STEVENS RIFLES.

## IDEAL WALNUT HILL. No. 49.




Made for the same cartridges as No 45.

Half-octagon barrel, varnished pistol grip stock and fore-end of plain walnut, with cheek piece; stock and fore-end checkered, Swiss butt-plate, frame and butt-plate case hardened, embossed frame, weight about 9½ lbs.

***No. 49 C**—With 28-inch barrel, G or H sights.....Each, $42.00 | ***No. 49 D**—With 30-inch barrel, G or H sights.....Each, $43 00

H sights are the standard, and will be sent unless otherwise ordered. The barrel is without rear slot. Unless specially ordered this rifle is sent without palm rest.

Palm rest (extra).....Each, $5.00 | Double set triggers (extra).....Each, $6 00

## IDEAL SCHUETZEN. No. 51.

No. 51.

Made for all cartridges described under Stevens Rifles

Cut showing palm rest, walnut stock and fore-end, with cheek piece, extra fancy Swiss pattern stock, full checked; large Schuetzen butt-plate, half-octagon barrel, double set triggers. Weight, about 13 lbs

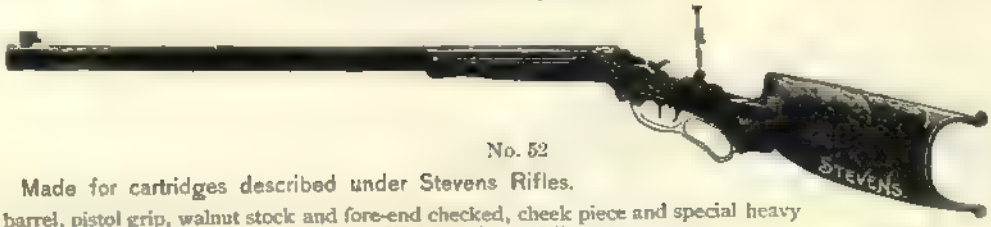
***No. 51 D**—30-inch barrel, G or H sights.....Each, $58.00 | ***No. 51 E**—32-inch barrel, G or H sights.....Each, $60.00

When ordering specify caliber wanted

H sights are the standard and will be sent unless otherwise ordered. The barrel is without rear slot. Unless specially ordered this rifle is without palm rest.

Palm rest (extra).....Each, $5 00

## IDEAL SCHUETZEN, JR. No. 52.




No. 52

Made for cartridges described under Stevens Rifles.

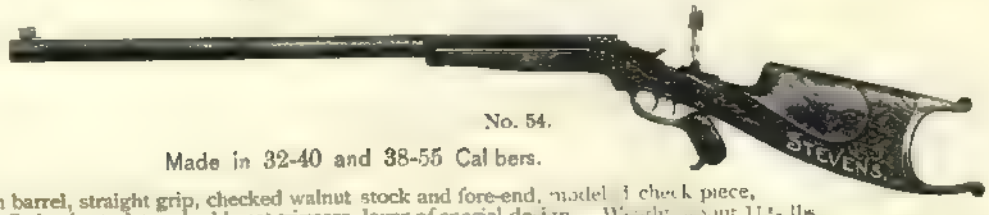
Half-octagon barrel, pistol grip, walnut stock and fore-end checked, cheek piece and special heavy butt-plate, double set triggers, G or H sights. Weight, about 12 lbs.

***No. 52 D**—30-inch barrel.....Each, $54.00 | ***No. 52 E**—32-inch barrel.....Each, $56 00

Palm rest (extra)..... " 5 00

When ordering specify caliber wanted

## IDEAL SCHUETZEN SPECIAL. No. 54.




No. 54.

Made in 32-40 and 38-55 Calibers.

Half-octagon barrel, straight grip, checked walnut stock and fore-end, nickel cheek piece, heavy Swiss butt-plate, double set triggers, lever of special design Weight, about 11½ lbs.

***No. 54 D**—30-inch barrel.....Each, $68 00 | ***No. 54 E**—32-inch barrel.....Each, $70 00

Palm rest (extra)..... 5 00

When ordering specify caliber wanted

## DESCRIPTION OF SIGHTS FOR STEVENS RIFLES.

G sights—Wind-gauge front and mid-range vernier peep. H sights—Globe interchangeable front and wind-gauge vernier peep, with adjustable eye-cup.

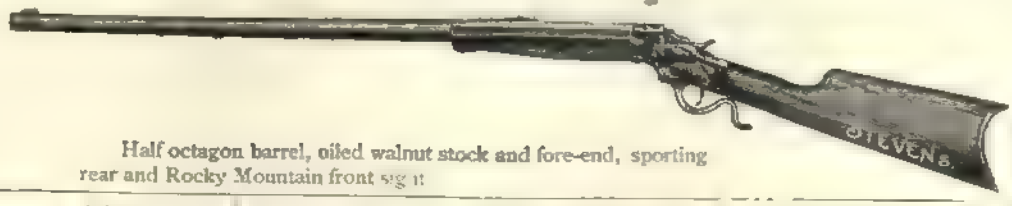
*Stevens Schuetzen rifles No 49, 51, 52 and 54 can be furnished only on special orders from factory

PACIFIC HARDWARE & STEEL COMPANY

# STEVENS RIFLES.

## IDEAL SPORTING No. 44.

**Made for 22 Long Rifle, 25 Stevens, and 32 Long Rim Fire Cartridges, 25-20 Stevens, 32-20, 32-40, 38-40, 38-55 and 44-40 Center Fire Cartridges.**



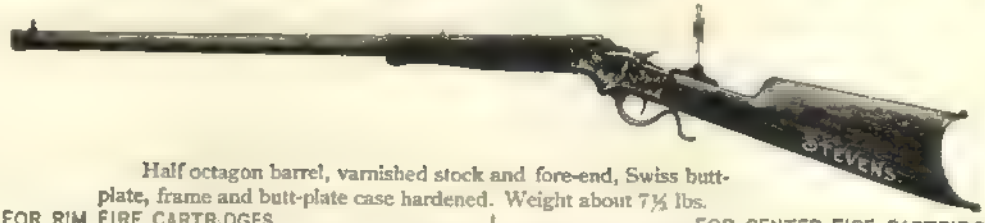

Half octagon barrel, oiled walnut stock and fore-end, sporting rear and Rocky Mountain front sight

| No. | Caliber | Length of Barrel. | Style of Barrel | Weight | Each. |
|---|---|---|---|---|---|
| 44 A | 22 L. R. Rim fire | 24-inch | Half-octagon | 7 lbs. | $10 00 |
| 44 B | 25 Stevens " | 24 " | " | 7 " | 10 00 |
| 44 C | 32 Long " | 24 " | " | 7 " | 10.00 |
| 44 D | 25-20 Center fire | 26 " | " | 7¼ " | 10.00 |
| 44 E | 32-40 " | 26 " | " | 7¼ " | 10.00 |
| 44 F | 38-55 " | 26 " | " | 7¼ " | 10.00 |
| 44 G | 44-40 " | 26 " | " | 7¼ " | 10 00 |

Double set triggers.....Extra $3 00

## IDEAL No. 45. RANGE.

**Made for 22 Short, 22 Long Rifle, 25 Stevens, and 32 Long Rim Fire Cartridges. 25-20 Stevens, 25-21, 32-40, 32 Ideal, and 38-55 Center Fire Cartridges.**



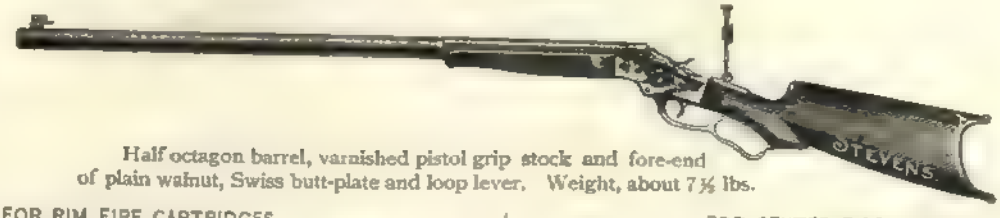

Half octagon barrel, varnished stock and fore-end, Swiss butt-plate, frame and butt-plate case hardened. Weight about 7½ lbs.

| FOR RIM FIRE CARTRIDGES. | | FOR CENTER FIRE CARTRIDGES. | |
|---|---|---|---|
| *No. 045 B—26-inch barrel | Each $22.00 | *No. 45 C—28-inch barrel | Each $22 00 |
| *No. 045 C—28 " " | " 23 00 | *No. 45 D—30 " " | " 23.00 |

When ordering specify caliber wanted.

## IDEAL No. 47. WITH PISTOL GRIP.

**Made for the same Cartridges as No. 45.**



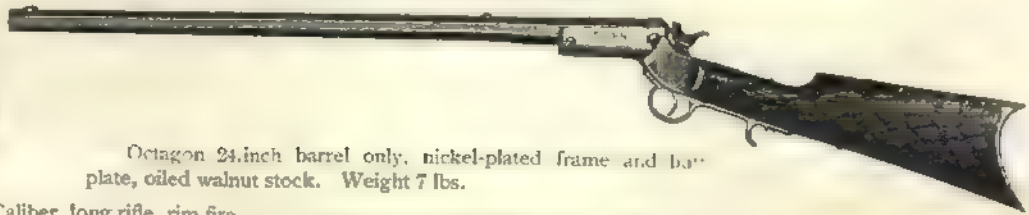

Half octagon barrel, varnished pistol grip stock and fore-end of plain walnut, Swiss butt-plate and loop lever. Weight, about 7½ lbs.

| FOR RIM FIRE CARTRIDGES. | | FOR CENTER FIRE CARTRIDGES. | |
|---|---|---|---|
| *No. 047 B—26-inch barrel | Each $27 00 | *No. 47 C—28-inch barrel | Each $27 00 |
| *No. 047 C—28 " " | " 28 00 | *No. 47 D—30 " " | " 28 00 |

When ordering specify caliber wanted.

## No. 2. OPEN SIGHT.

The 22 Caliber will Shoot 22 Short, 22 Long, 22 Long Rifle Rim Fire Cartridges.



The 32 Caliber will Shoot 32 Short and 32 Long Rim Fire Cartridges

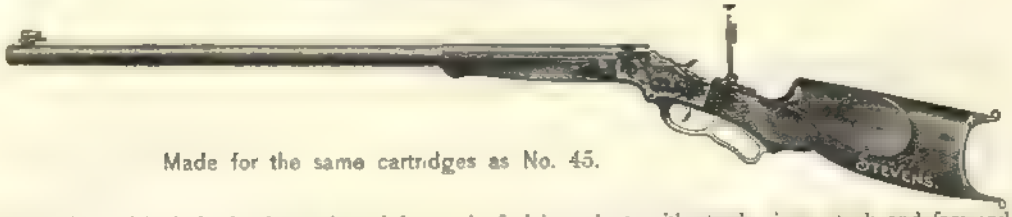
Octagon 24-inch barrel only, nickel-plated frame and butt-plate, oiled walnut stock. Weight 7 lbs.

| | | |
|---|---|---|
| *No. 2 A—22 Caliber, long rifle, rim fire | Each | $17 00 |
| *No. 2 AC—25 " rim fire | " | 17 00 |
| *No. 2 AD—32 " long rim fire | " | 17.00 |

*Stevens Rifle Nos. 045, 45, 047, 47 and 2 can be furnished on special orders from factory only.

# STEVENS RIFLES.

## IDEAL WALNUT HILL. No. 49.




Made for the same cartridges as No. 45.

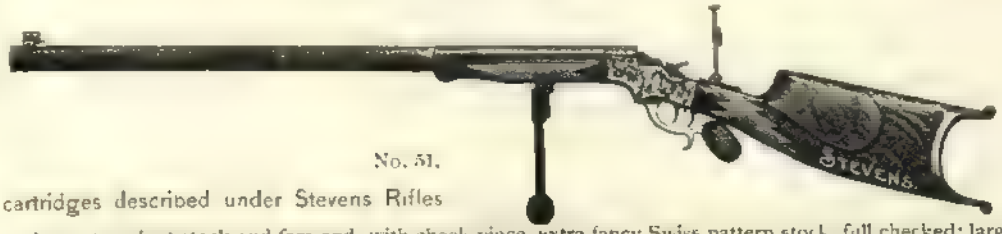
Half-octagon barrel, varnished pistol grip stock and fore-end of plain walnut, with cheek piece, stock and fore-end checkered, Swiss butt-plate, frame and butt-plate case hardened, embossed frame, weight about 9½ lbs.

***No. 49 C**—With 28-inch barrel, G or H sights.....Each, $42.00 | ***No. 49 D**—With 30-inch barrel, G or H sights.....Each, $43.00

H sights are the standard, and will be sent unless otherwise ordered. The barrel is without rear slot. Unless specially ordered this rifle is sent without palm rest.

Palm rest (extra).....Each, $5.00 | Double set triggers (extra).....Each, $6.00

## IDEAL SCHUETZEN. No. 51.




No. 51.

Made for all cartridges described under Stevens Rifles

Cut showing palm rest, walnut stock and fore-end, with cheek piece, extra fancy Swiss pattern stock, full checked; large Schuetzen butt-plate, half-octagon barrel, double set triggers. Weight, about 13 lbs.

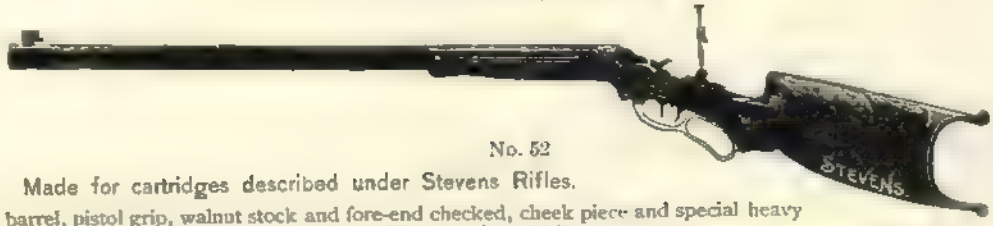
***No. 51 D**—30-inch barrel, G or H sights.....Each, $58.00 | ***No. 51 E**—32-inch barrel, G or H sights.....Each, $60.00

When ordering specify caliber wanted

H sights are the standard and will be sent unless otherwise ordered. The barrel is without rear slot. Unless specially ordered this rifle is without palm rest.

Palm rest (extra).....Each, $5.00

## IDEAL SCHUETZEN, JR. No. 52.




No. 52

Made for cartridges described under Stevens Rifles.

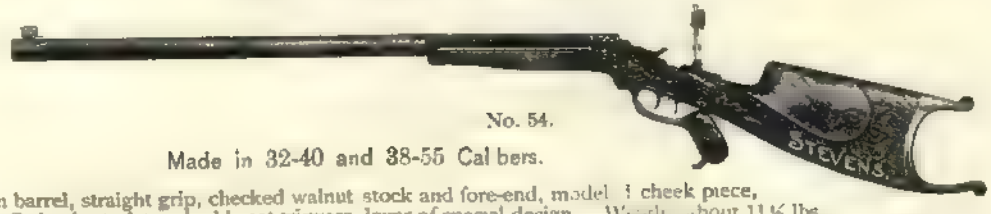
Half-octagon barrel, pistol grip, walnut stock and fore-end checked, cheek piece and special heavy butt-plate, double set triggers, G or H sights. Weight, about 12 lbs.

***No. 52 D**—30-inch barrel.....Each, $54.00 | ***No. 52 E**—32-inch barrel.....Each, $56.00

Palm rest (extra).....5.00

When ordering specify caliber wanted

## IDEAL SCHUETZEN SPECIAL. No. 54.




No. 54.

Made in 32-40 and 38-55 Calibers.

Half-octagon barrel, straight grip, checked walnut stock and fore-end, model 1 cheek piece, heavy Swiss butt-plate, double set triggers, lever of special design. Weight, about 11½ lbs.

***No. 54 D**—30-inch barrel.....Each, $68.00 | ***No. 54 E**—32-inch barrel.....Each, $70.00

Palm rest (extra).....5.00

When ordering specify caliber wanted

## DESCRIPTION OF SIGHTS FOR STEVENS RIFLES

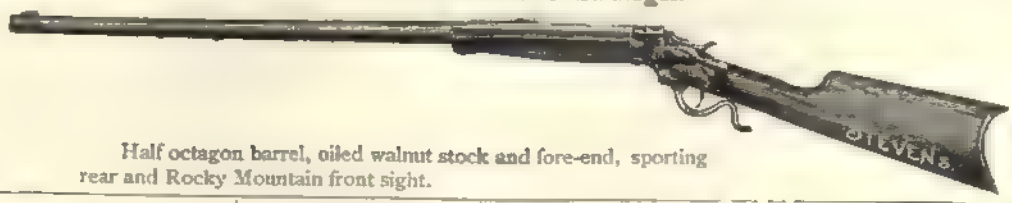
G sights—Wind-gauge front and mid-range vernier peep. H sights—Globe interchangeable front and wind-gauge vernier peep, with adjustable eye-cup.

*Stevens Schuetzen rifles No. 49, 51, 52 and 54 can be furnished only on special orders from factory.

# STEVENS RIFLES.

## IDEAL SPORTING No. 44.

**Made for 22 Long Rifle, 25 Stevens, and 32 Long Rim Fire Cartridges, 25-20 Stevens, 32-20, 32-40, 38-40, 38-55 and 44-40 Center Fire Cartridges.**



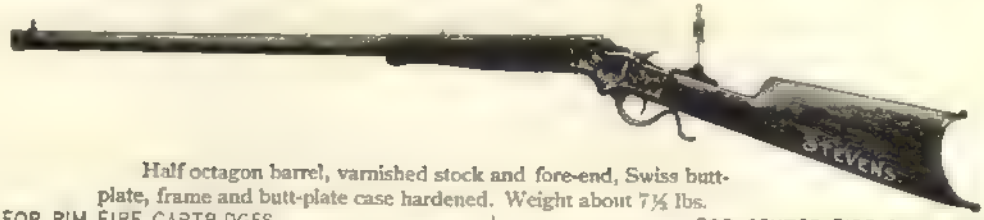

Half octagon barrel, oiled walnut stock and fore-end, sporting rear and Rocky Mountain front sight.

| No. | Caliber. | Length of Barrel. | Style of Barrel | Weight | Each. |
|---|---|---|---|---|---|
| 44 A | 22 L. R. Rim fire | 24-inch | Half-octagon | 7 lbs. | $10 00 |
| 44 B | 25 Stevens " | 24 " | " | 7 " | 10 00 |
| 44 C | 32 Long " | 24 " | " | 7 " | 10.00 |
| 44 D | 25-20 Center fire | 26 " | " | 7¼ " | 10.00 |
| 44 E | 32-40 " | 26 " | " | 7¼ " | 10.00 |
| 44 F | 38-55 " | 26 " | " | 7¼ " | 10.00 |
| 44 G | 44-40 " | 26 " | " | 7¼ " | 10 00 |

Double set triggers ... extra $5 00

## IDEAL No. 45. RANGE.

**Made for 22 Short, 22 Long Rifle, 25 Stevens, and 32 Long Rim Fire Cartridges. 25-20 Stevens, 25-21, 32-40, 32 Ideal, and 38-55 Center Fire Cartridges.**



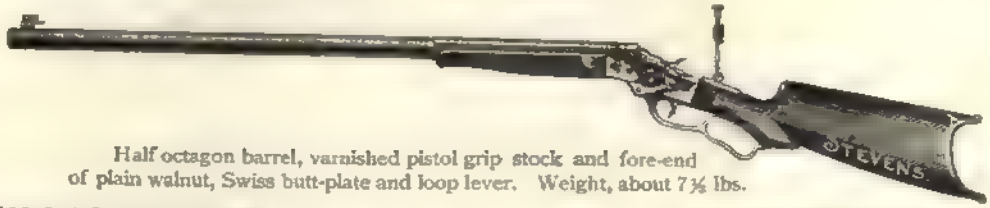

Half octagon barrel, varnished stock and fore-end, Swiss butt-plate, frame and butt-plate case hardened. Weight about 7½ lbs.

| FOR RIM FIRE CARTRIDGES | | FOR CENTER FIRE CARTRIDGES. | |
|---|---|---|---|
| *No. 045 B—26-inch barrel | Each $22 00 | *No. 45 C—28-inch barrel | Each $22 00 |
| *No. 045 C—28 " " | " 23.00 | *No. 45 D—30 " " | " 23.00 |

When ordering specify caliber wanted.

## IDEAL No. 47. WITH PISTOL GRIP.

**Made for the same Cartridges as No. 45.**



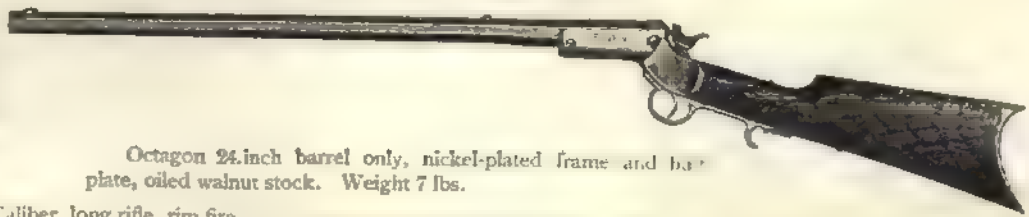

Half octagon barrel, varnished pistol grip stock and fore-end of plain walnut, Swiss butt-plate and loop lever. Weight, about 7½ lbs.

| FOR RIM FIRE CARTRIDGES. | | FOR CENTER FIRE CARTRIDGES | |
|---|---|---|---|
| *No. 047 B—26-inch barrel | Each $27 00 | *No. 47 C—28-inch barrel | Each $27 00 |
| *No. 047 C—28 " " | " 28.00 | *No. 47 D—30 " " | " 28 00 |

When ordering specify caliber wanted.

## No. 2. OPEN SIGHT.

The 22 Caliber will Shoot 22 Short, 22 Long, 22 Long Rifle Rim Fire Cartridges.




The 32 Caliber will Shoot 32 Short and 32 Long Rim Fire Cartridges

Octagon 24-inch barrel only, nickel-plated frame and butt-plate, oiled walnut stock. Weight 7 lbs.

| | | |
|---|---|---|
| *No. 2 A—22 Caliber, long rifle, rim fire | Each | $17.00 |
| *No. 2 AC—25 " rim fire | " | 17 00 |
| *No. 2 AD—32 " long rim fire | " | 17.00 |

*Stevens Rifle Nos. 045, 45, 047, 47 and 2 can be furnished on special orders from factory only

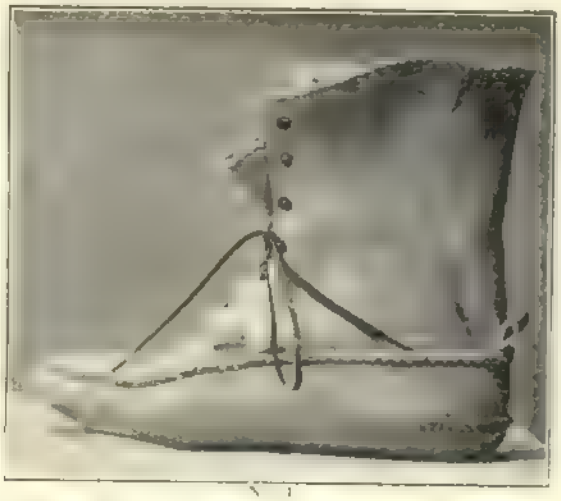
# Snow Shoes.

## Alaska.

No. 21

**No. 10**—Yukon, Rawhide Netting, Size, 14×44 in.... ..Per Pair, $6 00
**No. 20**—Alaska, " " " 12×60 "..... " " 8 00

# Moccasins.



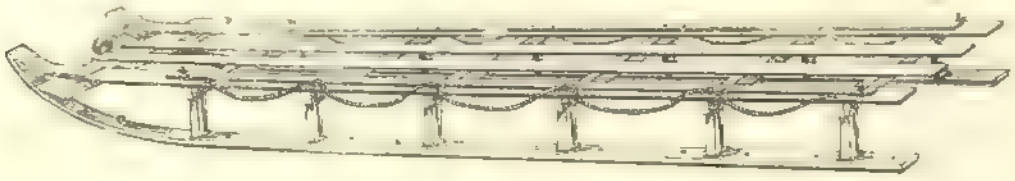
No. 1

**No. 1**—Lace. Hand Made, Indian Tan Moose Tops and Bottoms, 7 in. high. Sizes, 11 and 12.....Per Pair, $4 00

No. 11

**No. 11**—Lace. Hand Made, Indian Tan Moose Bottoms, Indian Tan Buckskin Tops, 8 in. High, Sizes 11 and 12.....Per Pair, $5 00

# Yukon Sleds.



Hickory.

**Steel Shoes**—Full Length, 7 ft. 2 in., Width, 16½ in., 1¾ in. Runners, Mortised Braces, Side Ropes, Weight Each, 35 lbs .....Each, $ 6 00
**Brass Shoes**—Same Description as Above..... " 10 00

# PLUMB BOBS.

IRON

No. 2.

## IRON. JAPANNED.

| | | | | |
|---|---|---|---|---|
| **No. 00**—Adjusted Top. | Weight, 18 ounces | Per dozen, | $3.00 |
| **No. 0**— " " | 12 " | " | 5.00 |
| **No. 2**— " " | 9½ " | " | 1.00 |

No. 00, one-half dozen; No. 2, one dozen in box. No. 0, loose.

IRON.

Nos. 00 and 0

LEAD.

Nos. 3 and 4

## LEAD.

| | | | | |
|---|---|---|---|---|
| **No. 3**—Steel pointed. | Weight, 12 ounces | Per dozen, | $6.25 |
| **No. 4**— " " " | 20 " | " | 8.00 |

One-half dozen in box.

## BRASS.

| | | | | |
|---|---|---|---|---|
| **No. 50**—Steel pointed. | Weight, 6½ ounces | Per dozen, | $ 7.25 |
| **No. 60**— " " " | 12 " | " | 10.00 |

One-half dozen in box.

BRASS

Nos. 50 and 60

ADJUSTABLE.

Nos. 21 to 25.

## STANLEY'S ADJUSTABLE.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **No. 21**—Small. | Bronze metal. | Steel point. | Weight, | 8 ounces | Each, | $1.50 |
| **No. 22**—Large. | " " | " " | " | 13 " | " | 1.75 |
| **No. 25**— " | Iron. | " " | " | 10 " | " | 1.00 |

One in box.

CALIFORNIA ENGINEER'S PATTERN.

Nos. 11 to 15

## CALIFORNIA ENGINEER'S PATTERN.

Accurate and Reliable.

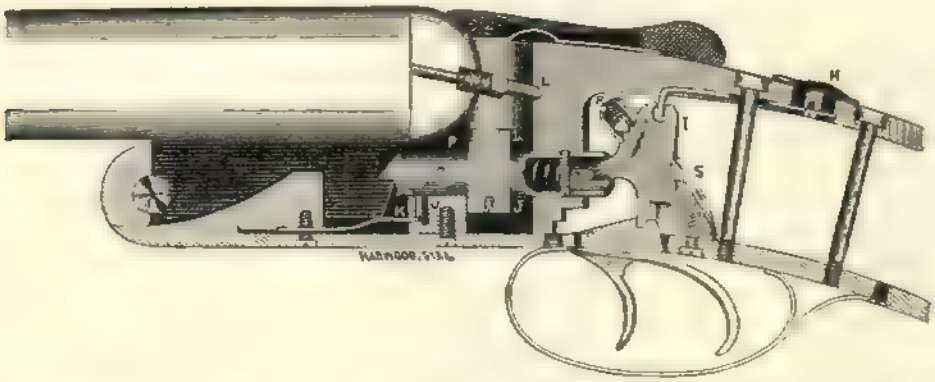
Brass, Highly Finished. With Screw Cap and Steel Points.

| | | | | |
|---|---|---|---|---|
| **No. 11**—Weight, | 9 ounces | Each, | $1.50 |
| **No. 12**— " | 12 " | " | 1.75 |
| **No. 13**— " | 16 " | " | 2.25 |
| **No. 14**— " | 32 " | " | 3.00 |
| **No. 15**— " | 64 " | " | 4.00 |

One in box.

# GUN EXTRAS.

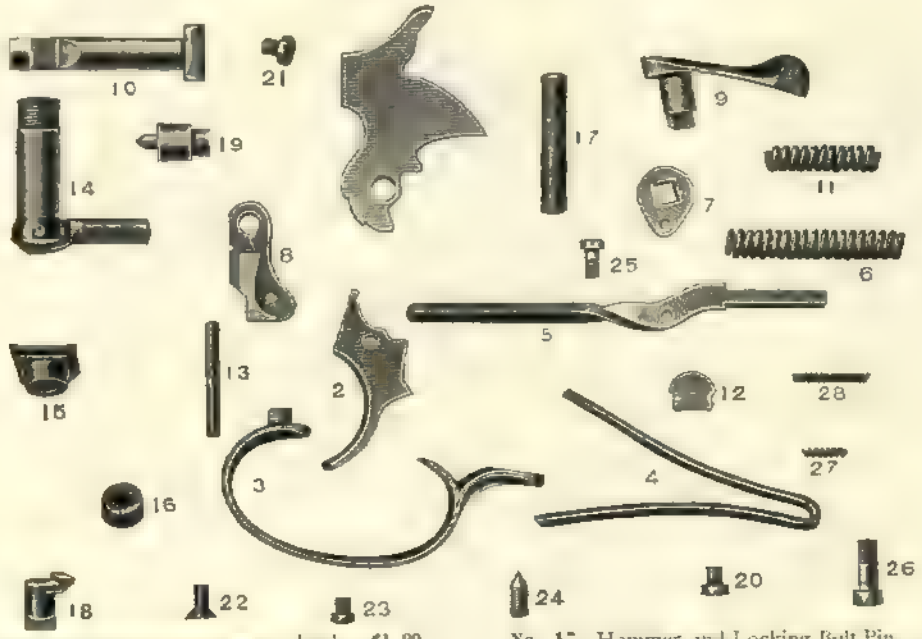
## ITHACA HAMMERLESS.



H—Automatic safety slide. I—Automatic locking disc. T—Safety post. R—Spring dog.

| | | | | | |
|---|---|---|---|---|---|
| No. 25—Twist Barrels | Each, | $24 00 | No. 30—Side Levers | Each, | $0 80 |
| No. 26—Damascus Barrels | " | 34 00 | No. 31—Cocking Hooks | " | 40 |
| No. 27—Damascus, finer grades (extra each grade) | " | 10 00 | No. 32—Plain Stock | " | 9 00 |
| No. 28—Sear Spring (mainspring 25c) | " | 50 | Finer grade stock (extra each grade | " | 2 00 |
| No. 29—Hammers | " | 1 00 | Rebrowning Barrels, any grade | " | 3.00 |

## FOREHAND SINGLE.




| | | | | | |
|---|---|---|---|---|---|
| No. 1—Hammer | Each, | $1.20 | No. 17—Hammer and Locking Bolt Pin | Each, | $0 20 |
| No. 2—Trigger | " | .80 | No. 18—Extractor Trip | " | 30 |
| No. 3—Guard | " | .60 | No. 19—Firing Pin and Spring | " | .30 |
| No. 4—Mainspring | " | 60 | No. 20—Firing Pin Screw | " | .10 |
| No. 5—Locking Bolt Link | " | 50 | No. 21—Top Lever Screw | " | .10 |
| No. 6—Link Spring | " | 30 | No. 22—Ejector Cap Screw | " | .10 |
| No. 7—Link Swivel | " | .20 | No. 23—Guard Screw | " | 10 |
| No. 8—Locking Bolt | " | 60 | No. 24—Trip Screw | " | 10 |
| No. 9—Top Lever | " | 50 | No. 25—Locking Bolt Link Screw | " | .10 |
| No. 10—Cartridge Ejector | " | 30 | No. 26—Fore-end Screw | " | 10 |
| No. 11—Cartridge Ejector Spring | " | .20 | No. 27—Extractor Trip Spring | " | 10 |
| No. 12—Ejector Cap | " | 10 | No. 28—Joint Pin and Lever Spring | " | .10 |
| No. 13—Trigger Pin | " | 00 | No. 29—Fore-end | " | 1.00 |
| No. 14—Joint Pin and Lever | " | 40 | No. 30—Butt Stock | " | 3.00 |
| No. 15—Front Stock Loop | " | .20 | No. 31—Butt Plate | " | .50 |
| No. 16—Fore-end Knurl | " | | | | |

PACIFIC HARDWARE & STEEL COMPANY

# GUN EXTRAS.

## SYRACUSE HAMMERLESS.

| | | |
|---|---|---|
| No. 1 | Front Circle and Fore-End for grade 00 and 0 | Each, $ 4.00 |
| No. 2 | " " " " " 2 | " 5.00 |
| No. 3 | " " " " " 3 | " 6.00 |
| No. 4 | " " " " " A. ejector | " 20.00 |
| No. 5 | Hammers, either right or left hand | " 1.00 |
| No. 6 | Sears, " " " " | " 1.00 |
| No. 7 | Triggers, " " " " | " .50 |
| No. 8 | Trigger Plate | " 4.00 |
| No. 9 | Guard | " 2.00 |
| No. 10 | Top Lever | " 1.00 |
| No. 11 | Safety Slide | " .20 |
| No. 12 | Thumb Piece | " .50 |
| No. 13 | Extractor | " 1.00 |
| No. 14 | Butt Stock | Each, $4.00 |
| No. 15 | " Plate | " 1.00 |
| No. 16 | Fore-End Spring | " .50 |
| No. 17 | Top Lever " | " .50 |
| No. 18 | Main " | " .50 |
| No. 19 | Sear " | " .50 |

### EJECTOR PARTS

| | | |
|---|---|---|
| No. 25 | Extractor, right or left hand | Each, $2.00 |
| No. 26 | Kicker, " " " " | " 1.00 |
| No. 27 | " Spring | " .20 |
| No. 28 | Sears, right or left hand | " .50 |
| No. 29 | " Springs | " .20 |
| No. 30 | Ejector Rods, right or left hand | " .60 |

## REMINGTON DOUBLE HAMMERLESS.

| No. | | A | B | C | D | E | AE | BE | CE | DE |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | Butt Stock | $ 30 | $1 00 | $25 00 | $25 00 | $40 00 | $ 8 00 | $15.00 | $35.00 | $35.00 |
| 3 | Butt Plate | 1 00 | 1 00 | 1 00 | 1 00 | 3 00 | 1 00 | 1 00 | 3 50 | |
| 4 | Bolt | .50 | .50 | .50 | .50 | .50 | .50 | .50 | .50 | .50 |
| 5 | Butt Plate Screw | .06 | .06 | .06 | .12 | .15 | .06 | .06 | .15 | .12 |
| 6 | Center Screw | .50 | .50 | .50 | .50 | .50 | .50 | .50 | .50 | .50 |
| 7 | Cocking Levers (2 each) | .40 | .40 | .40 | .50 | .60 | .40 | .40 | .60 | .40 |
| 8 | Cocking Levers (2 each) | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 |
| 9 | Ejector Hammer, R. H. | | | | | | 1 50 | 1 50 | 1 50 | 1 50 |
| 10 | Ejector Hammer, L. H. | 7 | 7 | 7 | 7 | 7 | | | | |
| 11 | Ejector, R. H. | | | | | | | 1 50 | 1 50 | .75 |
| | Ejector, L. H. | | | | | | | 1 50 | 1 50 | 1 50 |
| 12 | Ejector Spring, R. H. | | | | | | | .50 | .50 | .50 |
| | Ejector Spring, L. H. | | | | | | | .50 | .50 | .50 |
| 13 | Ejector Sear | | | | | | | .50 | .50 | .50 |
| 14 | Ejector Hammer Pin | | | | | | | .10 | .10 | .10 |
| 15 | Ejector Sear and Ejector Sear Pin | | | | | | | .10 | .10 | .10 |
| | Ejector Sear Spring | | | | | | | .50 | .50 | .50 |
| 16 | Fore-End | 10 00 | 15 00 | 25 00 | 40 00 | 60 00 | 15 00 | 25 00 | 40 00 | 60 00 |
| 17 | Fore-End Screw | 1 00 | 1 00 | 1 00 | 1 00 | 1 00 | 1 00 | 1 00 | 1 00 | 1 00 |
| 18 | Fore-End Escutcheon | 4 00 | 6 00 | 12 00 | 14 00 | 20 00 | 14 00 | 14 00 | 20 00 | 20 00 |
| 19 | Fore-End Iron | 2 50 | 2 50 | 2 50 | 3 00 | 3 50 | 2 75 | 2 75 | 3 50 | 3 50 |
| 20 | Fore-End Tip | .50 | .75 | 1 00 | 1 25 | 1 50 | .50 | .75 | 1 00 | 1 25 |
| 21 | Locking Plunger | 1 00 | 1 00 | 1 00 | 1 00 | 1 00 | 1 00 | 1 00 | 1 00 | 1 00 |
| 22 | Fore-End Lever Spring | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 |
| 23 | Firing Pin | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 |
| 24 | Hammer | 1 00 | 1 25 | 2 00 | 3 00 | 4 00 | 1 00 | 3 00 | 3 00 | 4 00 |
| 25 | Hammer, R. H. | .75 | .75 | .75 | .75 | .75 | .75 | .75 | .75 | .75 |
| | Hammer, L. H. | .75 | .75 | .75 | .75 | .75 | .75 | .75 | .75 | .75 |
| 26 | Hammer Pin | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 |
| 27 | Lever Screw | .50 | .50 | .50 | .50 | .50 | .50 | .50 | .50 | .50 |
| 28 | Lever Fixing Screw | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 |
| | Main Spring, R. H. | .75 | .75 | .75 | .75 | .75 | .75 | .75 | .75 | .75 |
| 29 | Main Spring, L. H. | .75 | .75 | .75 | .75 | .75 | .75 | .75 | .75 | .75 |

| No. | | A | B | C | D | E | AE | BE | CE | DE |
|---|---|---|---|---|---|---|---|---|---|---|
| 30 | Rocker Bolt | $ .25 | $ .25 | $ .25 | $ .25 | $ .25 | $ .25 | $ .25 | $ .25 | $ .25 |
| 31 | Safety Slide | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 |
| 32 | Safety Stud | .20 | .20 | .20 | .20 | .20 | .20 | .20 | .20 | .20 |
| 33 | Safety Plunger | .20 | .20 | .20 | .20 | .20 | .20 | .20 | .20 | .20 |
| 34 | Sear, R. H. | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 |
| | Sear, L. H. | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 | .40 |
| 35 | Sear Spring, R. H. | .25 | .25 | .25 | .25 | .25 | .25 | .25 | .25 | .25 |
| | Sear Spring, L. H. | .25 | .25 | .25 | .25 | .25 | .25 | .25 | .25 | .25 |
| 36 | Safety Spring | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 |
| 37 | Safety Plunger Spring | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 |
| 38 | Safety Rocker | .15 | .15 | .15 | .15 | .15 | .15 | .15 | .15 | .15 |
| 39 | Safety Rocker Pin | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 |
| 40 | Short Rocker Pin | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 |
| 41 | Sear Pin | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 |
| 42 | Safety Plunger Slide Stop | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 |
| | Screws, Each | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 | .06 |
| 43 | Trigger Plate Screw | .05 | .05 | .05 | .12 | .15 | .05 | .05 | .05 | .12 |
| 44 | Trigger, R. H. | .25 | .25 | .25 | .25 | .25 | .25 | .25 | .25 | .25 |
| 45 | Trigger, L. H. | .25 | .25 | .25 | .25 | .25 | .25 | .25 | .25 | .25 |
| 46 | Trigger Slide | 2 50 | 2 50 | 3 00 | 3 00 | 4 00 | 2 50 | 2 50 | 3 00 | 4 00 |
| 47 | Trigger Slide Nut | .15 | .15 | .15 | .15 | .15 | .15 | .15 | .15 | .15 |
| 48 | Trigger Spring | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 |
| 49 | Trigger Pin | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 | .03 |
| 50 | Top Lever | 1 00 | 1 00 | 1 00 | 1 00 | 2 00 | 1 00 | 1 00 | 1 00 | 1 00 |
| 51 | Top Lever Spring | .50 | .50 | .50 | .50 | .50 | .50 | .50 | .50 | .50 |
| 52 | Top Bolt | .25 | .25 | .25 | .25 | .25 | .25 | .25 | .25 | .25 |
| 53 | Thumb Piece | .10 | .10 | .10 | .10 | .20 | .10 | .10 | .10 | .10 |
| 54 | Top Bolt Screw | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 |
| 55 | Top Escutcheon | .10 | .10 | .10 | .10 | .10 | .10 | .10 | .10 | .20 |
| 56 | Top Screw | .05 | .05 | .07 | .10 | .10 | .05 | .05 | .10 | .05 |
| 57 | Upper Lever Screw | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 | .05 |

Barrels one-half the price of the gun of the same grade.

## PARKER HAMMERLESS.

| | | Each. |
|---|---|---|
| No. m | Hammer | $3 00 |
| No. t | Hammer Stirrup | 1 00 |
| No. C | Mainspring Plunger | 1 00 |
| No. 5 | Mainspring | .80 |
| No. X | Cocking Slide | 2 00 |
| No. 4 | Roll | 2 00 |
| No. 7 | Sear | 2 00 |
| No. 30 | Sear Spring | 1 20 |
| No. 17 | Top Lever | 2 00 |
| No. 20 | Pound Top Bolt | 1 00 |
| No. 11 | Square Top Bolt | 1 50 |
| No. 21 | Bolt Lever | 1 50 |
| No. 34 | Bolt Lever with Roll | 1 50 |
| No. 29 | Top Lever Spring | $1.50 |
| No. P | Cocking Crank | 2.50 |
| No. e | Cocking Link | 1 50 |
| No. g | Unhooking Slide | 2 50 |
| No. 8 | Trigger | 1 20 |
| No. 28 | Trigger Spring | .40 |
| No. 33 | Trip | .70 |
| No. 12 | Safety Slide | 1.00 |
| No. 13 | Safety Slide Spring | 2.00 |
| No. N | Safety Lever and Jacket | 1 50 |
| No. 9 | Guard Bow | 2 00 |
| No. 19 | Rubber Butt Plate | 3 00 |
| No. 16 | Trigger Plate | 6 00 |
| No. 23 | Extractor | $2.00 |
| No. b | Safety Pin | .40 |
| No. Y | Unhooking Pin and Spring | .40 |
| No. W | Sear Pin | .20 |
| No. 8 | Cocking Link Pin and Spring | .20 |
| No. 1 | Spring for Pin Y | .20 |
| No. 2 | Link Screw | .50 |
| No. 8 | Tang, Hammer and Butt Plate Screws | .80 |
| | All small Screws and Pins not named | .20 |
| No. 18 | Bushing for Tang Screw | .50 |
| No. R | Roll Pin | .40 |

# GOPHER TRAPS.

## JOLLY.

Steel Spring Wire

**No. 3**—Coppered. Weight, 2 lbs.....Per dozen, $2.00

## C. V.

**No. 1**—Japanned. Weight, 2¼ lbs.....Per dozen, $2.50

## DEAD LOCK.

Steel Spring Wire.

**No. 7**—Japanned. Weight, 2¼ lbs.....Per dozen, $2.50

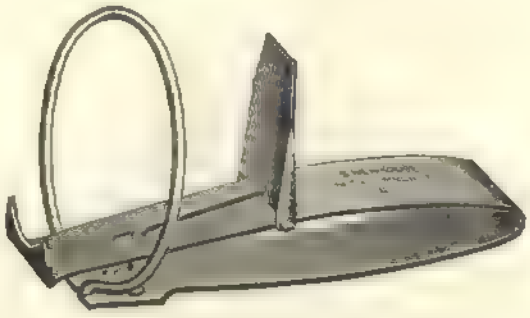
## WARD'S.

**No. 8**—Coppered. Wrought iron bar. Brass jaws. Weight, 3 lbs. .....Per dozen, $3.00

All above, one dozen in box.

# GOPHER TRAPS.

## NEWHOUSE.



Flat Spring Steel.

**No. 5**—Bright. Weight, 2½ lbs. .....Per dozen, $3.00

One dozen in box.

# MOLE TRAPS.

## OUT-O'-SIGHT.

Malleable Iron.

**No. 1**—Japanned green. Weight, 24 lbs. .....Per dozen, $9.00

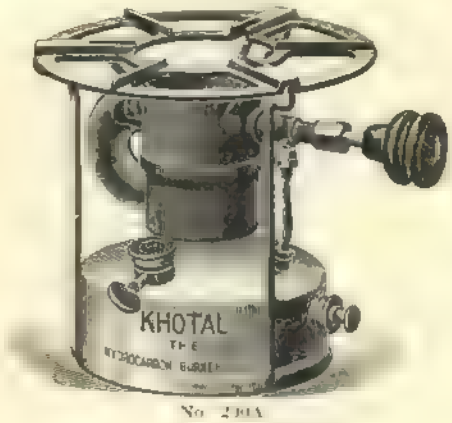
One-twelfth dozen in box.

# Wickless Oil Stoves.

## Khotal.

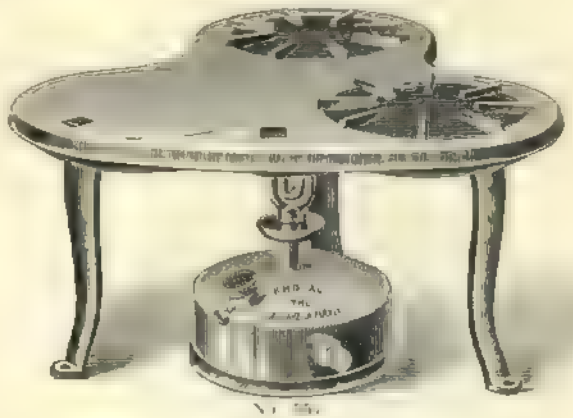
Hydrocarbon Burner.

Non-Detachable Standard.




No. 200A

With Extension Top.



No. 551

For Kerosene.

**No. 200A**—Brass Reservoir, Capacity, 1 quart, Height, 8½ in., Diam. Top, 5¾ in. Diameter Base, 6¾ in., Weight Each, 6 lbs . . . . . Each, $4 50

One in a Box. Six in a Crate

**No. 551**—With Cast Extension Top which will Permit the Simultaneous Use of Three Cooking Utensils. Steel Reservoir, Description Same as No. 105. Weight Each, 30 lbs . . . . . Each, $8 50

Legs can be Removed to Facilitate Transportation.

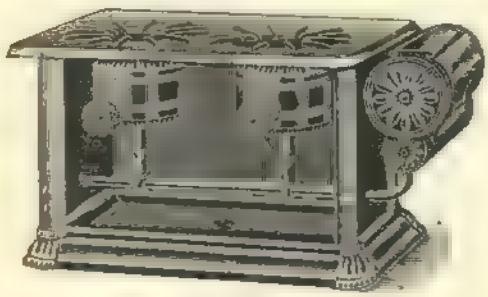
Three in a Case.

## Extras for Khotal Stoves.

**Burners,** Each, $2 50 | **Caps,** Each, $0 30 | **Wrenches,** Each, $0 20 | **Needles,** Each, $0 10 | **Nipples,** Each, $0 20

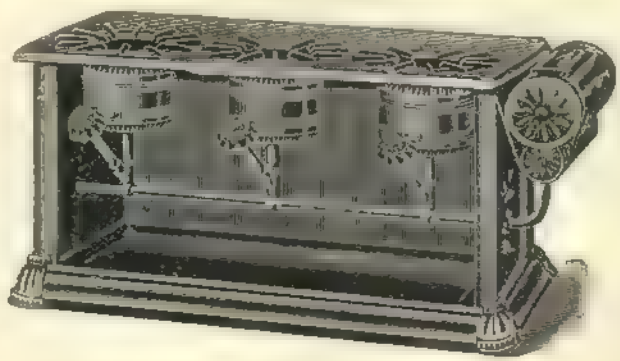
## Sterling Puritan Blue Flame.

Two Burner.



No. 822

Three Burner.



No. 823

**No. 822**—2 Burner, Height 15 in., Top 18 × 25 in., Capacity of Reservoir, 1 gallon, Weight Each, 44 lbs. . . . . Each, $9 50

**No. 823**—3 Burner, Height 15 in., Top 18 × 33 in., Capacity of Reservoir, 1 gallon, Weight Each, 54 lbs. . . . . Each, $12 00

Absolutely safe, free from odor or smoke, which is due to perfect combustion. They do not become greasy like other oil stoves. No dirty wick to trim or replace.

They are free from any complicated mechanism whatever. The perforated burner tubes are made of seamless drawn tubing which makes every burner perfect.

Burners are 3½ inches in diameter, giving a very large heating surface. One gallon of kerosene will run one burner from 17 to 20 hours.

They are better than a gasoline stove because they are absolutely safe, make less odor, are more economical, and do all the work that any gasoline stove will do. Beside this there is always waste from gasoline by evaporation, but there is no such loss with Kerosene.

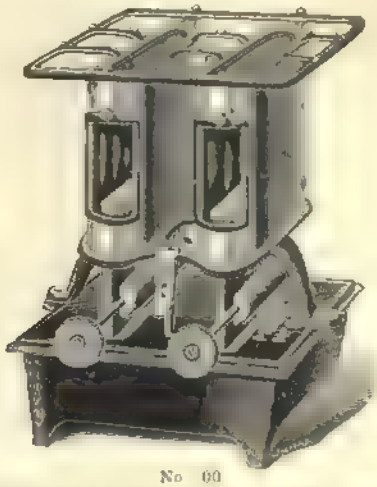
# Oil Stoves.

## Model.

Single.

No. 0.

Double.



No. 00

Brass Burners, Soldered to Solid Cast Reservoir, Tin Chimneys, Japanned Top Grates and Cones.

**No. 0**- One 4 in Burner, Weight per Dozen, 52 lbs . . . . . Per Dozen, $8 00
**No. 00**—Two 4 " " " " " 83 " . . . . . " " 16 00

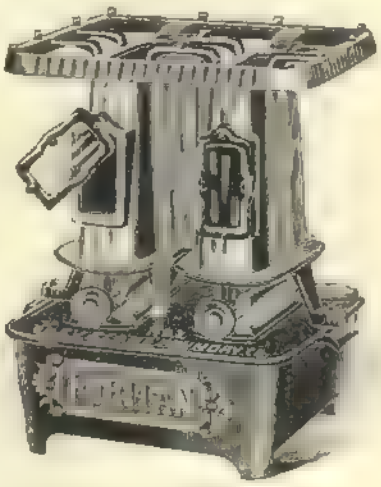
No. 0, One Dozen, No. 00, Half Dozen in a Case.

## Puritan.

Single.

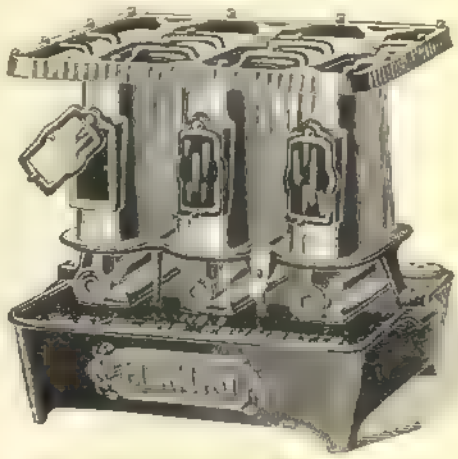
No. 1

Double.



No. 2

Triple.



No. 3

**No. 1** One 4 in Brass Burner, Soldered to Reservoir, Top Grate, Cone, and Mica Frame. Polished and Nickel Plated New Mica can be Supplied by Removing a Single Bolt, Weight per Case, 42 lbs . . . . . Per Dozen, $14 00

**No. 2**—Two 4 in Brass Burners Soldered to Reservoir, Top Grate, Cone, and Mica Frames. Polished and Nickel Plated, Swinging Mica Frames. Stove can be Lighted without Tipping Back the Chimney. Weight per Case, 82 lbs . . . . . Per Dozen, 28 00

Above Half Dozen in a Case

**No. 3** Three 4 in Brass Burners Soldered to Reservoir, Top Grate, Cone, and Mica Frames. Polished and Nickel Plated, Swinging Mica Frames Stove can be Lighted without Tipping Back the Chimney Weight per Case, 56 lbs . . . . . Per Dozen, 42 00

Quarter Dozen in a Case

# DOUBLE BARREL HAMMERLESS SHOTGUNS.

## PARKER.

| | | |
|---|---|---|
| **Vulcan** Steel, plain stock, pistol or straight grip, rubber butt-plate, 12, 16, 20 and 28 gauge | Each, | $ 50 00 |
| **P H**—English Twist, fine stock, pistol grip, rubber butt-plate, 12, 16, 20 guage | " | 65 00 |
| **N H**— " " " " " " " " " 10 gauge | " | 70 00 |
| **G H**—Damascus steel, fine stock, pistol grip, rubber butt-plate, 12 or 16 gauge | | 80 00 |
| **E H**— " " " " " " " " " 10 gauge | | 85.00 |
| **D H**— " " imported stock, skeleton butt-plate, silver shield, pistol grip, 10, 12 or 16 gauge | " | 100 00 |
| **C H**—Bernard steel, imported stock, checkering and engraving, silver shield, skeleton butt-plate, pistol grip, 10, 12 or 16 gauge | | 150.00 |
| **B H**—Extra fine Damascus steel barrels, imported walnut stock, gold shield, extra fine checkering and engraving, skeleton butt-plate, pistol grip, 10, 12 or 16 gauge | " | 200.00 |

Weight, 6½ to 8½ pounds.

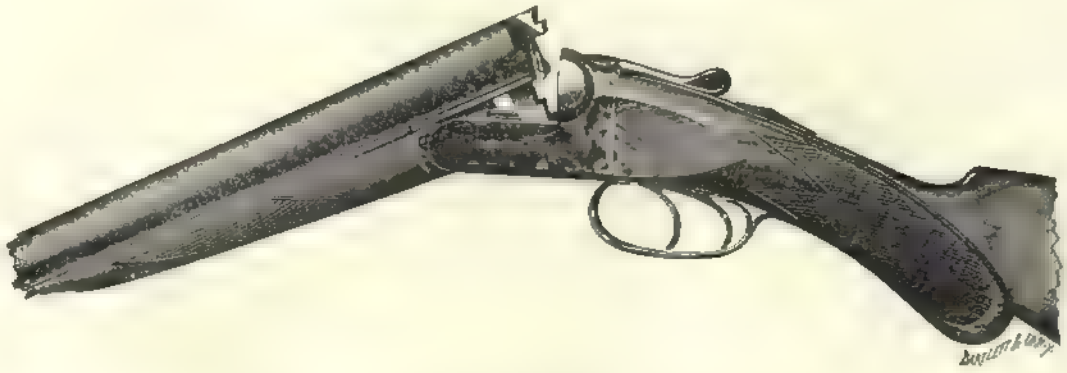
## L. C. SMITH.

| | | |
|---|---|---|
| **No. 00**—Armor steel barrels, full choke bored, English walnut stock, half pistol grip, checkered, 30-inch barrels, 12 gauge only | Each, | $ 37 00 |
| **No. 00E**—Same as No. 00, with automatic shell ejector | | 50 00 |
| **No. 0**—Damascus barrels, choke bored, English walnut stock, half or full pistol grip, checkered, 30-inch barrels, 10, 12 or 16 gauge | | 47 10 |
| **No. 0E**—Same as No. 0, with automatic shell ejector | " | 60 00 |
| **No. 2**—Damascus steel barrels, or Crown steel, English walnut stock, checkered and engraved, half or full pistol grip, 30-inch barrels, 10, 12 or 16 gauge | " | 80 00 |
| **No. 2E**—Same as No. 2, with automatic shell ejector | " | 95 00 |
| **No. 3**—Nitro steel barrels, imported English walnut stock, checkered and engraved, half or full pistol grip, 30-inch barrels, 10, 12 or 16 gauge | " | 100 00 |
| **No. 3E**—Same as No. 3, with automatic shell ejector | " | 1 5 00 |
| **No. 4**—Damascus steel barrels, or new nitro steel, imported English walnut stock, checkered, engraved, half or full pistol grip, 28, 30 or 32-inch barrels, 10, 12 or 16 gauge | " | 150 00 |
| **No. 4E**—Same as No. 4, with automatic shell ejector | " | 165 00 |
| **No. 5**—Damascus or new nitro steel barrels in 12 and 16 gauge, imported English or French walnut stock, checkering, engraved, half or full pistol grip, 28, 30 or 32-inch barrels, 10, 12 or 16 gauge | " | 200 00 |
| **No. 5E**—Same as No. 5, with automatic shell ejector | " | 215 00 |
| **No. 6E**—Monogram, finest Damascus or Whitworth Fluid Steel Barrels, imported French or English walnut stock, very finest checkering, beautifully engraved, half, three-quarters or full pistol grip, 30-inch barrels, 10, 12 or 16 gauge, fitted with automatic shell ejector | " | 365 00 |

Weight, 6½ to 8½ pounds.

# DOUBLE BARREL HAMMERLESS SHOTGUNS.

## REMINGTON.



10, 12 and 16 Gauge.

| | | |
|---|---|---|
| **Grade K**—Remington blued steel barrels, choke bored, selected walnut, half pistol grip, rubber butt-plate, checkered, case hardened frame and mountings, snap fore-end, flat matted rib, automatic safety, 12 and 16 gauge only | Each, | $ 35.00 |
| **Grade K E D**—Same as K, with automatic ejector, Damascus barrels | " | 45.00 |
| **Grade A**—Two-stripe Damascus barrels, plain finish, English walnut stock | " | 45.00 |
| **Grade A E**—Same as A, with automatic ejector | " | 50.00 |
| **Grade B**—Fine three-stripe Damascus barrels, fine engraving, fine English walnut stock | " | 60.00 |
| **Grade B E**—Same as B, with automatic ejector | " | 65.00 |
| **Grade C**—Finer Damascus barrels, scroll engraving, selected English walnut stock and finer checkering, silver name-plate | " | 90.00 |
| **Grade C E**—Same as C, with automatic ejector | " | 95.00 |
| **Grade A R**—Remington steel barrels, blue, English walnut stock, finish the same as Grade A | " | 45.00 |
| **Grade A E R**—Same as AR, with automatic ejector | " | 50.00 |
| **Grade A O**—Extra quality Ordnance steel barrels, blue, English walnut stock | " | 60.00 |
| **Grade A E O**—Same as AO, with automatic ejector | " | 65.00 |
| **Grade B O**—Extra quality Ordnance steel barrels, blue, English walnut stock, finish the same as Grade B | " | 75.00 |
| **Grade B E O**—Same as BO, with automatic ejector | " | 80.00 |
| **Grade D**—Very fine Damascus barrels, fine scroll engraving, fine English walnut stock and checkering, silver name-plate | " | 150.00 |
| **Grade D E**—Same as D, with automatic ejector | " | 155.00 |
| **Grade E**—Finest Damascus barrels, finest quality bird and game engraving, best English walnut stock, checkered sides, gold name-plate | " | 225.00 |
| **Grade E E**—Same as E, with automatic shell ejector | " | 230.00 |

In the C, D and E grades Ordnance steel barrels will be furnished without additional charge.

Weight, 7 to 8¼ pounds.

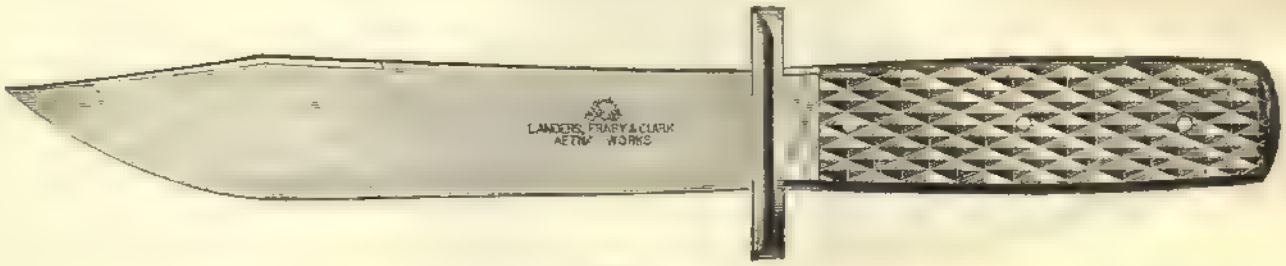
## ITHACA.

The Ithaca guns are strongly made, well bored, have an improved cocking device, combination independent and automatic safety.

**No. 1P**—Fine English steel twist barrels, English walnut stock, checkered pistol grip, 12 or 16 gauge. $35 00

Weight, 7 to 8¼ lbs.

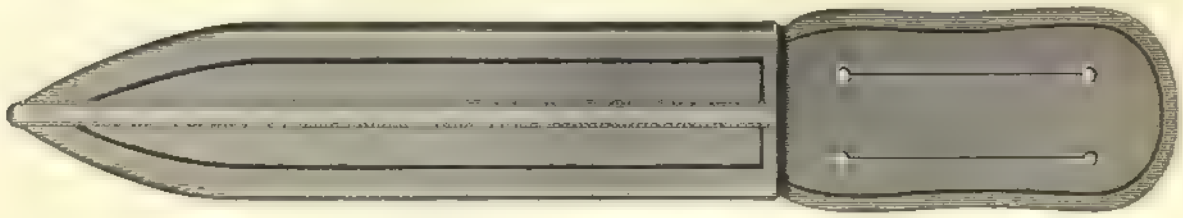
# Hunting Knives.



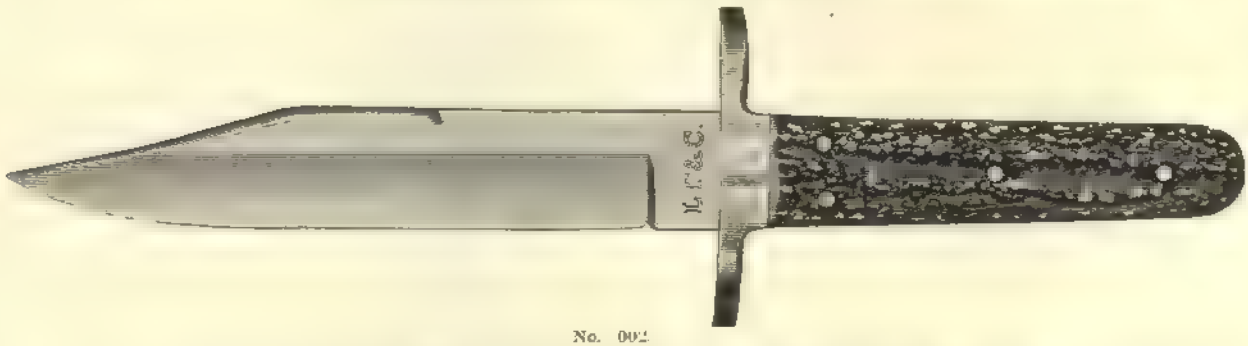

No. G284

**Scored Ebony Handle, Heavy Guard.**

**No. G284**—Length of Blade, 6 in., Weight per Dozen, 6½ lbs . . Per Dozen, $10 00



Leather Sheath Furnished with No. 002 Knives.



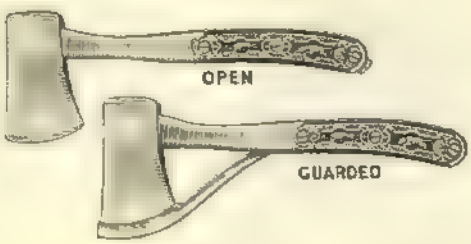

No. 002

**Stag Handle, German Silver Guard, Crocus Polished Blade, with Deep Swage**

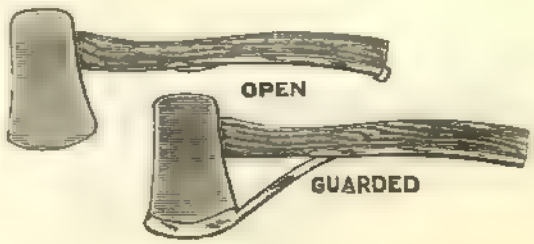
**No. 002**—Length of Blade, 6 in., with Leather Sheath, Weight per Dozen, 11 lbs . . . . . Per Dozen, $20 00

Quarter Dozen in a Box

# Marble's Safety Pocket Axes.




No. 2




No. 4

**The Metal Guards Fold Back Into the Handle when in Use.**

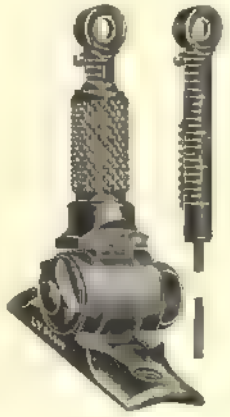
Are Made from the Best Tool Steel, and Warranted Against Defects in Material and Workmanship.

**No. 2**—Weight 20 oz., 11 in., Steel and Hard Rubber Handle . . . . . Per Dozen, $30 00

**No. 4**—Weight 19 oz., 11 in.; a Cheaper Axe than No. 2 but Substantially Made from Tool Steel with Hickory Handle. . . . . Per Dozen, 18 00

# Lyman Sights.

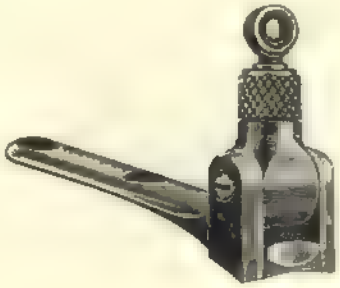
Combination Rear.



No. 1.

**No. 1**—Rear, Each, $3 00

Combination Rear.



Combination Rear Sight for Savage Rifle.

This sight is the same as the No. 1 Combination Rear but fitted to a base adapted to the Savage Rifle.

**No. 28** . . Each, $3 00

Combination Rear.

No. 2.

**No. 2**—Rear, Each, $3 50

Ivory Bead Front.

No. 3

**No. 3** ....Each, $1 00

Ivory Hunting.

No. 4

**No. 4**. Each, $0 50

Target Sight.

For target shooting at the range and gallery this sight is very good. It has a reversible aperture and globe which can be quickly changed

**No. 17** ..Each, $1 50

Ivory Combination Front.

No. 5

As Open. As Globe.

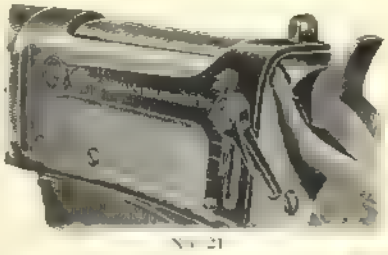
**No. 5**. . . . .Each, $1 00

Leaf Sight.

Leaves Folded Down. Using straight Bar. Using Crotch.

**No. 6** .....Each, $1 00

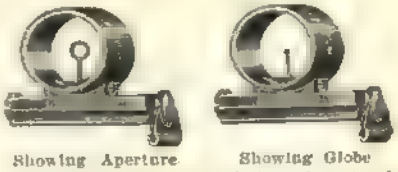
Receiver.



No. 21

**No. 21**—Rear . Each, $3 50

Wind-Gauge Target Sight.



Showing Aperture Showing Globe

It is compact in form, being close to the barrel. When set for a given point of wind, it is locked by a spring clamp firmly in position.

**No. 7** Each, $3 50

Slot Blank.

No. 12

Blank piece to replace the rear crotch sight which is usually on the barrel when the rifle is purchased

**No. 12** .....Each, $0 25

Ivory Shot Gun Sights.

Front

Rear

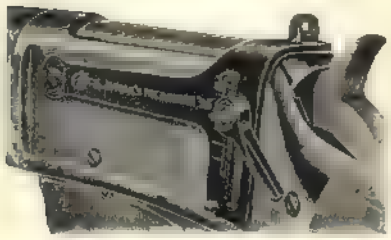
The engraving gives the appearance of the sights when aiming at a straight away bird. The elevation of the gun is right, but the rear sight shows that the gun is out of line which would not be discovered if these sights were not used. This system is a great help both in field and at the trap

**No. 9**—Ivory Shot Gun Sights, Front and Rear. . . . . .Per Set, $1 00

In Ordering Sights, Name Model, System, and Caliber of Rifle

# LYMAN SIGHTS.

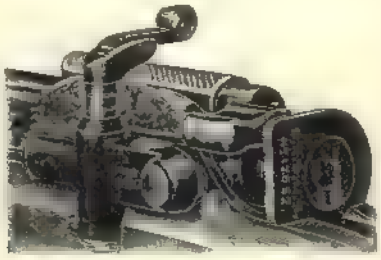
RECEIVER SIGHT



Adapted to 1886, 1892, 1894 and 1895 Model Winchester.
1893 and 1895 Model Marlin.
Savage 303.

**No. 21**.....Each, $3.50

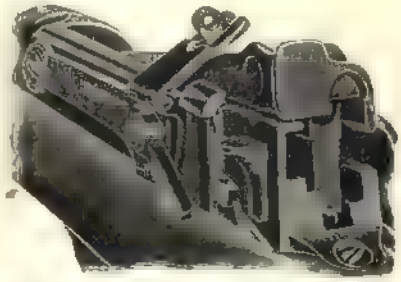
REAR SIGHT FOR MANLICHER SPORTING RIFLES.



The rear barrel sight should be removed or its stationary part should be filed off, to allow an unobstructed view when aiming

**No. 22**.....Each, $4.00

RECEIVER SIGHT FOR LEE STRAIGHT-PULL RIFLE.

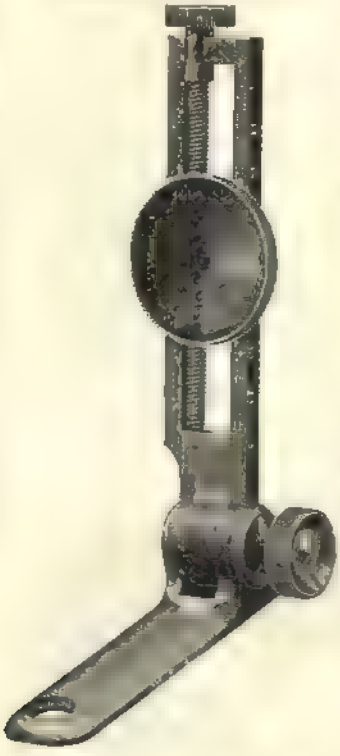


The above cut shows a new form of Receiver sight for the Winchester Lee Straight-pull Rifle. A hinged top, or arm, rises and falls when action is opened and closed.

**No. 25**.....Each, $5.00

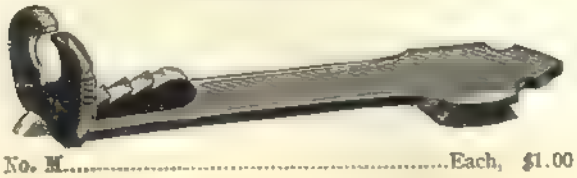
# WINCHESTER RIFLE SIGHTS.

MID-RANGE VERNIER PEEP.



**No. L** .....Each, $4.00
**No. LL**, Elevator screw " .75

BUCKHORN REAR.



**No. M**.....Each, $1.00

ROCKY MOUNTAIN FRONT.

Front. Side
**No. K**.....Each, $0.50

BEACH COMBINATION.

As Open. As Globe
**No. I**.....Each, $1.00

GLOBE, WITH INTERCHANGEABLE DISC.

**No. D**.....Each, $1.25

WINCHESTER FRONT EXPRESS.

**No. C**.....Each, $0.50

WINCHESTER REAR EXPRESS.

**No. B**.....Each, $1.50

KNIFE BLADE FRONT.

German Silver or Ivory.
**No. A**.....Each, $0.50

SPORTING FRONT.

**No. H**.....Each, $0.30

CARBINE REAR.

**No. F**.....Each, $1.25

WIND GAUGE.

**No. E**.....Each, $4.00

SPORTING REAR.

**No. N**—Complete.....Each, $0.80
**No. NN**—Elevator for sporting rear sight.....20
Graduated from 50 to 300 yards.

# RIM FIRE CARTRIDGES.

We illustrate on the following pages an entire line of metallic cartridges, rim and center fire. We also state for what rifles or pistols they are adapted. This list will be found very convenient in ordering, and if carefully referred to, will prevent many errors.

Adapted to Flobert and other Gallery Rifles.

| | | |
|---|---|---|
| BB, Round Ball | Per 1000, | $4 00 |
| BB, Conical " | " | 4.50 |
| BB, Shot | " | 8 00 |

Adapted to Rifles and Revolvers of this Caliber.

| | | |
|---|---|---|
| 22 Cal., Short | Per 1000, | $5 00 |
| 22 " " hollow point | " | 5.50 |
| 22 " " Smokeless | " | 6 25 |
| 22 " " " greaseless | " | 6 25 |
| 22 " " " hollow point | " | 6.75 |
| 22 " Long | " | 6.00 |
| 22 " " Smokeless | " | 7.50 |
| 22 " " " greaseless | " | 7 50 |
| 22 " " Shot | " | 11 00 |
| 22 " " Rifle | " | 6.00 |

Adapted to Rifles of this Caliber.

Adapted to Winchester Repeating Rifle Model 1890, and Winchester Single Shot Rifle

| | | |
|---|---|---|
| 22 Cal., Extra Long | Per 1000, | $9.00 |
| 22 " Winchester | " | 9.00 |

Adapted to Bacon and Bliss Revolvers.

Adapted to Winchester and Stevens' Single Shot Rifles

| | | |
|---|---|---|
| 25 Cal., Short | Per 1000, | $ 8 50 |
| 25 " Stevens | " | 14 00 |
| 25 " " Short | " | 10.00 |

Adapted to Pistols and Rifles of this Caliber.

Adapted to Colts and other Pistols and Rifles.

| | | |
|---|---|---|
| 30 Cal., Short | Per 1000, | $ 9.00 |
| 30 " Long | " | 10 50 |

Adapted to Remington and Protector Repeating Pistols

Adapted to Revolvers, Single Shot Pistols and Winchester Single Shot Rifle.

| | | |
|---|---|---|
| 32 Cal., Extra Short | Per 1000, | $10 00 |
| 32 " " " Smokeless | " | 12 50 |
| 32 " Short | " | 10 00 |

Adapted to Rifles and Pistols of this Caliber

Adapted to Ballard, Wesson and Remington Rifles

| | | |
|---|---|---|
| 32 Cal., Long | Per 1000, | $11.50 |
| 32 " " Shot | " | 22 00 |
| 32 " Extra Long | " | 16 00 |

Adapted to all Revolvers of this Caliber, and Ballard, Wesson, Forehand and Wadsworth, Remington, and other Rifles.

| | | |
|---|---|---|
| 38 Cal., Short | Per 1000, | $16.00 |
| 38 " " Shot | " | 30 00 |
| 38 " Long | " | 18 00 |

Adapted to Remington, F. Wesson, Robinson, Ballard and Howard Rifles

38 Cal., Extra Long.....Per 1000, $25 00

Adapted to National, Williamson, Colt, Remington, Southerner, Derringer, Ballard, Forehand & Wadsworth, and Frank Wesson Pistols.

Adapted to all Pistols of this Caliber

| | | |
|---|---|---|
| 41 Cal., Short | Per 1000, | $15.00 |
| 41 " Long | " | 17.50 |

Adapted to Bull-Dog, Remington, and other Pistols.

Adapted to Henry and Winchester Model 1866 Rifles

| | | |
|---|---|---|
| 44 Cal., Short | Per 1000, | $23 00 |
| 44 " Flat | " | 24 00 |

Adapted to Henry and Winchester Model 1866 Rifles, and Colt's Revolvers.

| | | |
|---|---|---|
| 44 Cal., Pointed | Per 1000, | $25 00 |
| 44 " Flat C. & W | " | 25.00 |

Adapted to F. Wesson, Allen, Ballard, Remington, Howard, Robinson, Forehand & Wadsworth and other Rifles

Adapted to F. Wesson, Ballard, Remington, Robinson, Howard and other Rifles.

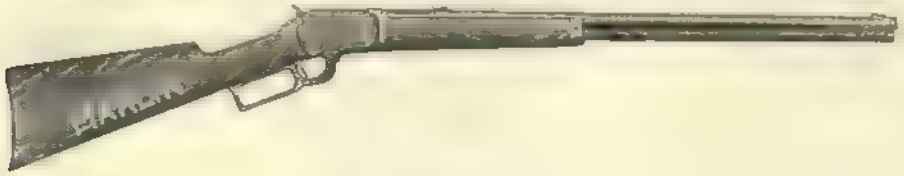
| | | |
|---|---|---|
| 44 Cal., Long | Per 1000, | $25 00 |
| 44 " Extra Long | " | 27 00 |

For detailed information of loads, weights, case contents, etc., pertaining to cartridges, see pages 924 to 928.

# Marlin Repeating Rifles.

## Model 1897, .22 Caliber, "Take Down."

Each Rifle uses the .22 Short, .22 Long and .22 Long Rifle, Rim Fire Cartridges.



**Half Magazine.**

| | | | | | | |
|---|---|---|---|---|---|---|
| **Model 1897**—24 in. | Round | Barrel. | Weight | 5½ lbs. | Each, | $15 35 |
| **Model 1897**—26 " | " | " | " | 5¾ " | " | 16 85 |
| **Model 1897**—24 " | Half Octagon | " | " | 5½ " | " | 16 80 |
| **Model 1897**—26 " | " | " | " | 5¾ " | " | 18 30 |

Capacity of half magazine, 16 short cartridges; 12 long cartridges; 10 long rifle cartridges. With rifle butt stock, same price as rubber butt. Rifles of this model have case hardened receivers.

## "Take Down," Model 1893.

**Interchangeable Barrels.**

Model 1893—All the calibers of this model, viz.: the .25-35, .30-30, and .38-55 have exactly the same action, so they will interchange and you can thus have, by purchasing extra barrel parts, as many as four take-down rifles on one action. The .38-40 and .44-40 will interchange, as they have exactly the same action, so by purchasing an extra barrel part, you can have two take down repeaters of these calibers with the one action

| | |
|---|---|
| **Model 1893**—Extra Price for "Take Down" on any Marlin Rifle | $ 4 00 |
| Extra Barrel Complete | 12 00 |

# Colt's Rifle.

**New Lightning Magazine Rifle, .22 Caliber.**

**Colt's Rifle**—24 in. Octagon Barrel, Fifteen Shots .22 Long or Sixteen .22 Short Cartridges, Weight 5¾ lbs. Each, $16 00

The breech action is simpler and more perfect than any other in the market, making the rifle absolutely safe against accidental explosion; and the left handed method of handling ensures the easiest manipulation of the gun.

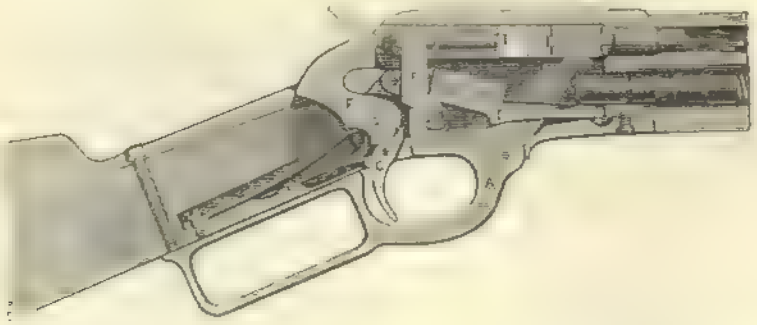
Care should be taken in the selection of cartridges. The rifle will take all long or all short .22 caliber cartridges or a part long and a part short.

The handle and slide are locked in their forward position except when the hammer is down. Do not use B B or C B Caps

**For Component Parts for Colt's Rifle, see Page 1097.**

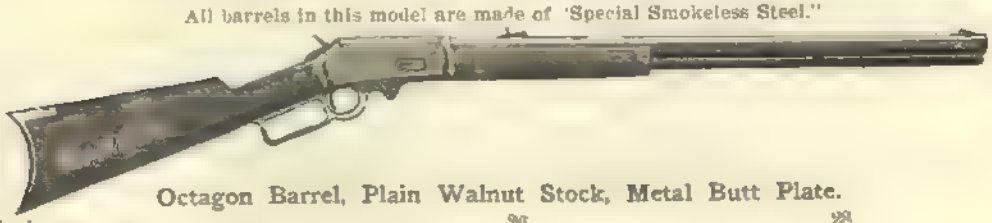
# Marlin Repeating Rifles.

## Model 1893.



## Model 1893, .25-36 and .30-30 Calibers.

All barrels in this model are made of "Special Smokeless Steel."



**Octagon Barrel, Plain Walnut Stock, Metal Butt Plate.**

| | | | |
|---|---|---|---|
| Length of Barrel, Inch | 26 | 28 | 30 |
| Number of Shots | 10 | 11 | 12 |
| Weight, lbs | 7¾ | 8 | 8⅛ |
| Each | $17 10 | 18 60 | 20 10 |

Longest magazine made is 30 inches. Rifle with half octagon barrel, same price as with octagon barrel. The standard rifle is fitted with rifle butt as illustrated. The length of rifle butt stock is 13 inches. The length over all of a Model 1893 Rifle with 26 inch barrel is 44½ inches. With butt stock removed the length of the rifle over all is 35 inches. Take Downs will pack in the length of the barrel.

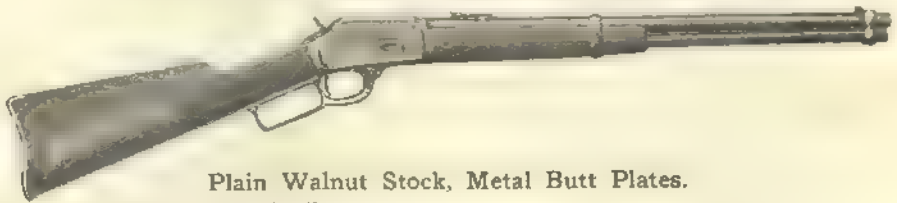
## Model 1893, .30-30, .32-40 and .38-55 Calibers.

**Half Magazine, "Take Down."**

**Half Octagon Barrel, Shot Gun Butt, Rubber Butt Plate, Pistol Grip, Checked.**

**Model 1893**—26 in. Barrel, .32-40 or .38-55 Caliber, Five Shots ..... Each, $23 00
**Model 1893**—26 " " .30-30 Caliber, Five Shots ..... " 25 10

## Carbine, Model 1893, .30-30 Caliber.



**Plain Walnut Stock, Metal Butt Plates.**

**Model 1893**—Round Barrel, Seven Shots, Weight 6¾ lbs. ..... Each, $15 55

The standard carbine has a sling ring on left side of receiver. This will be omitted if so ordered. When a carbine is ordered with butt and forearm swivels for sling strap, the ring is omitted unless ordered to be retained.

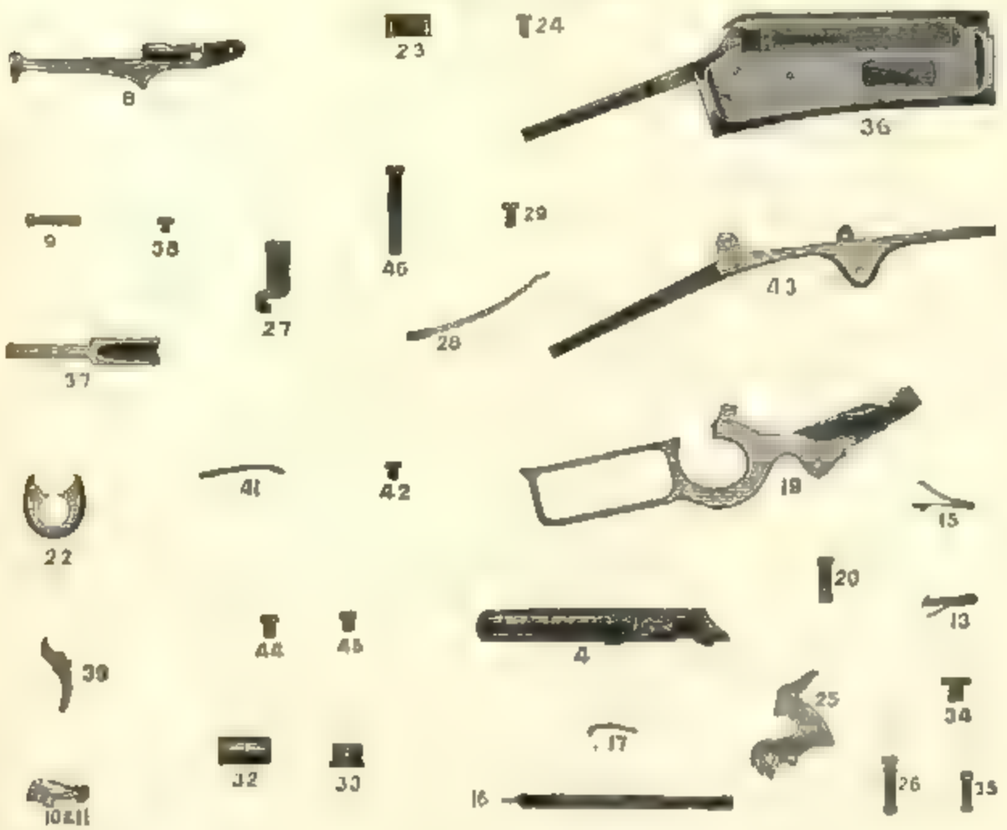
## Model 1893, "Take Down" Marlin Rifles.

For Take Down Action on Above 1893 Model Rifles, Add $4.00 Extra to List.

For Component Parts for Model 1893, see Page 1087.

# COMPONENT PARTS OF MARLIN RIFLES.

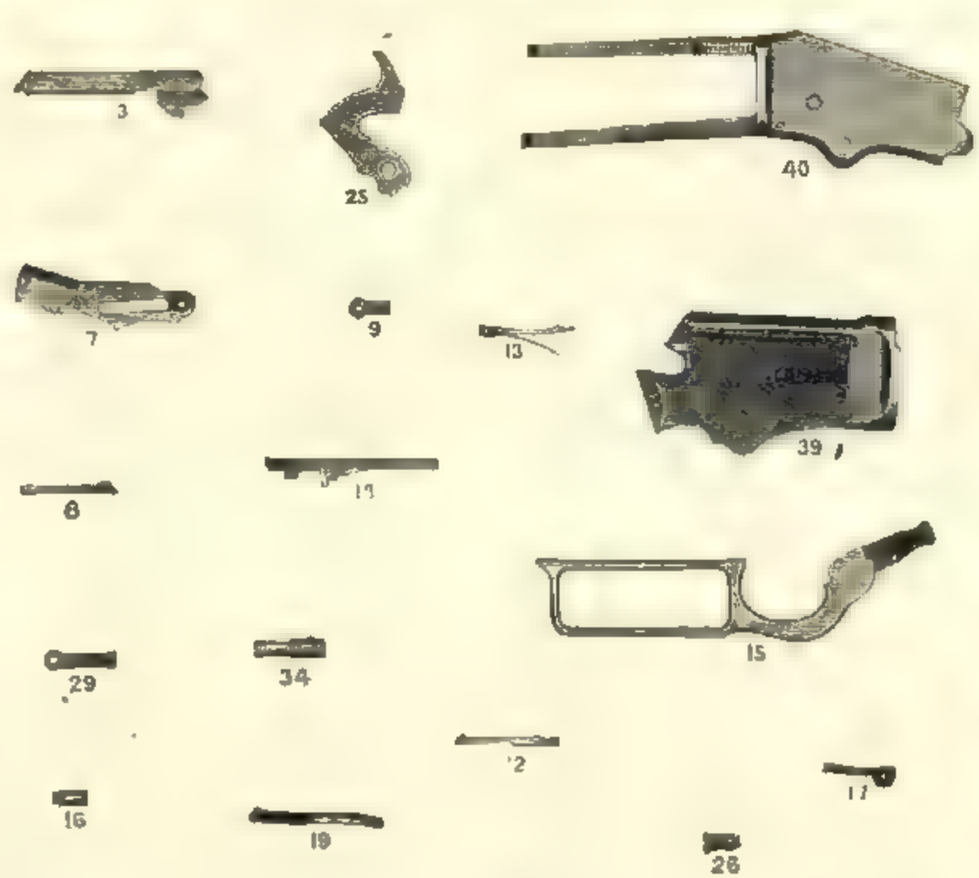
## MODEL 1895.




| No. | | |
|---|---|---|
| 4 | Breech Bolt | $3.00 |
| 5 | Butt Stock | 1.50 |
| 6 | Butt Plate | 80 |
| 7 | Butt Plate Screws (2) | 10 |
| 8 | Carrier | 2 00 |
| 9 | Carrier Screw | 05 |
| 10 | Carrier Rocker | .35 |
| 11 | Carrier Rocker Spring | 05 |
| 12 | Carrier Rocker Pin | 04 |
| 13 | Extractor | 30 |
| 14 | Extractor Pin | 04 |
| 15 | Ejector | 30 |
| 16 | Firing Pin (2 pieces) | .60 |
| 17 | Firing Pin Spring | 05 |
| 18 | Firing Pin Pin | 04 |
| 19 | Finger Lever (with friction plunger) | 2 00 |
| 20 | Finger Lever Screw | 05 |
| 21 | Forearm | .60 |
| 22 | Forearm Tip | .60 |
| 23 | Forearm Tip Tenon | .35 |
| 24 | Forearm Tip Tenon Screws (2) | .10 |
| 25 | Hammer | .75 |
| 26 | Hammer Screw | .10 |
| 27 | Locking Bolt | .75 |
| 28 | Mainspring | 30 |
| 29 | Mainspring Screw | .05 |

| No. | | |
|---|---|---|
| 30 | Magazine Tube | $1 50 |
| 31 | Magazine Tube Spring | .20 |
| 32 | Magazine Tube Spring Follower | 10 |
| 33 | Magazine Tube Plug | 10 |
| 34 | Magazine Tube Stud | 15 |
| 35 | Magazine Tube Stud Screw | .05 |
| 36 | Receiver | 9 00 |
| 37 | Loading Spring Cover | 50 |
| 38 | Loading Spring Cover Screw | 05 |
| 39 | Trigger | 15 |
| 40 | Trigger Pin | 04 |
| 41 | Trigger Spring | .15 |
| 42 | Trigger Spring Screw | 05 |
| 43 | Trigger Plate | 2 00 |
| 44 | Trigger Plate Screw | .05 |
| 45 | Trigger Plate Support Screw | 05 |
| 46 | Tang Screw | 10 |
| 47 | Front Band for Carbine | 35 |
| 48 | Front Band for Carbine Screw | 05 |
| 49 | Rear Band for Carbine | .35 |
| 50 | Rear Band for Carbine Screw | .05 |
| 52 | Butt Plate for Carbine | .80 |
| 54 | Stock Swivel and Screw | .40 |
| 55 | Tip Swivel | .40 |
| 56 | Dummy Screw (to fill Sight Screw Holes in Tang) | 04 |

## MODEL 1897.

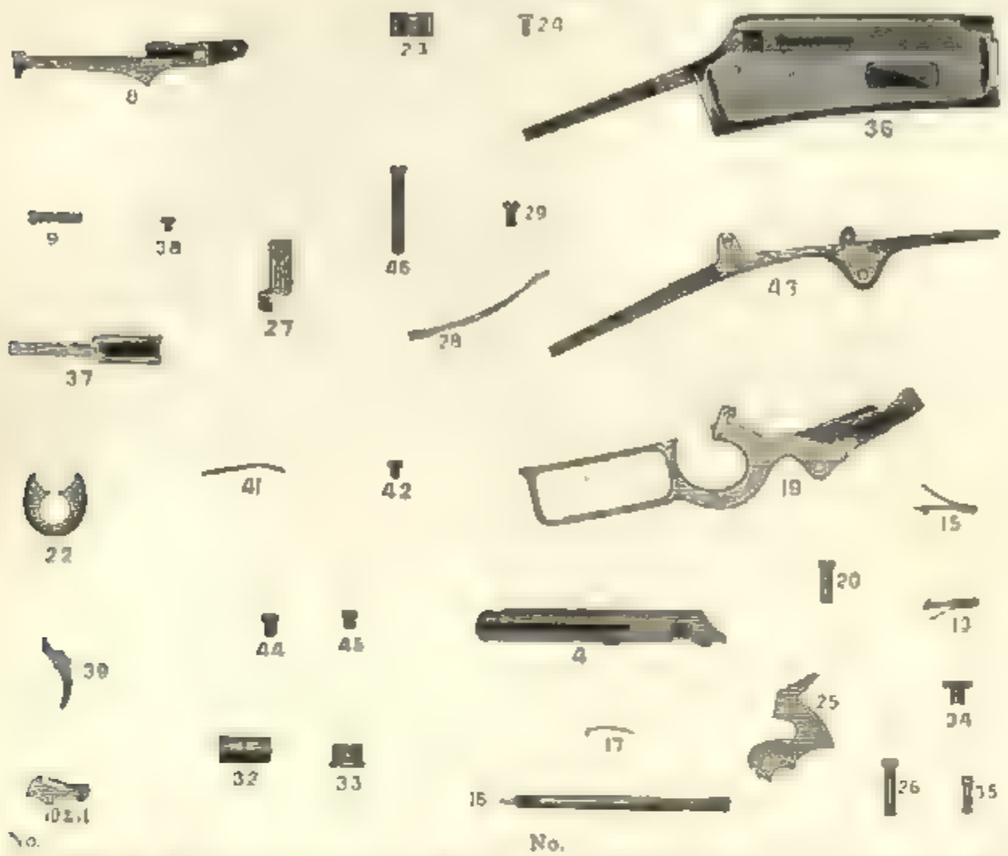



| No | | |
|---|---|---|
| 3 | Breech Bolt | $2 00 |
| 4 | Butt Stock | 1 50 |
| 5 | Butt Plate | 80 |
| 6 | Butt Plate Screws (2) | 10 |
| 7 | Carrier | 1 30 |
| 8 | Carrier Rocker | 35 |
| 9 | Carrier Rocker Spring | .15 |
| 10 | Carrier Rocker Spring Screw | 05 |
| 11 | Carrier Screw | .10 |
| 12 | Extractor | 30 |
| 13 | Ejector | 30 |
| 14 | Firing Pin | 60 |
| 15 | Finger Lever | 1 50 |
| 16 | Finger Lever Screw | .10 |
| 17 | Finger Lever Spring | .25 |
| 18 | Finger Lever Spring Screw | 10 |
| 19 | Cartridge Stop | 30 |
| 20 | Cartridge Stop Screw | 05 |
| 21 | Forearm | 60 |
| 22 | Forearm Tip | 60 |
| 23 | Forearm Tip Tenon | 35 |
| 24 | Forearm Tip Tenon Screws (2) | 10 |
| 25 | Hammer | 60 |
| 26 | Hammer Screw | 10 |

| No. | | |
|---|---|---|
| 27 | Mainspring | $0 30 |
| 28 | Mainspring Screw | 05 |
| 29 | Magazine Cartridge Cut-off | 10 |
| 30 | Magazine Cartridge Cut-off Screw | 10 |
| 31 | Magazine Tube (outside) | 1 50 |
| 32 | Magazine Tube (inside) | 1 50 |
| 33 | Magazine Tube Spring | 20 |
| 34 | Magazine Tube Spring Follower | 15 |
| 35 | Magazine Tube Plug | 25 |
| 36 | Magazine Tube Plug Pin | 05 |
| 37 | Magazine Tube Stud | 15 |
| 38 | Magazine Tube Stud Screw | 05 |
| 39 | Receiver (left side) | 5 00 |
| 40 | Receiver (right side) | 5 00 |
| 41 | Trigger | 45 |
| 42 | Trigger Pin | 04 |
| 43 | Trigger Spring | 10 |
| 44 | Trigger Spring Screw | 05 |
| 45 | Tang Screw | .0 |
| 46 | Thumb Screw | 25 |
| 47 | Dummy Screw (to fill Sight Screw Hole in Tang) | 04 |

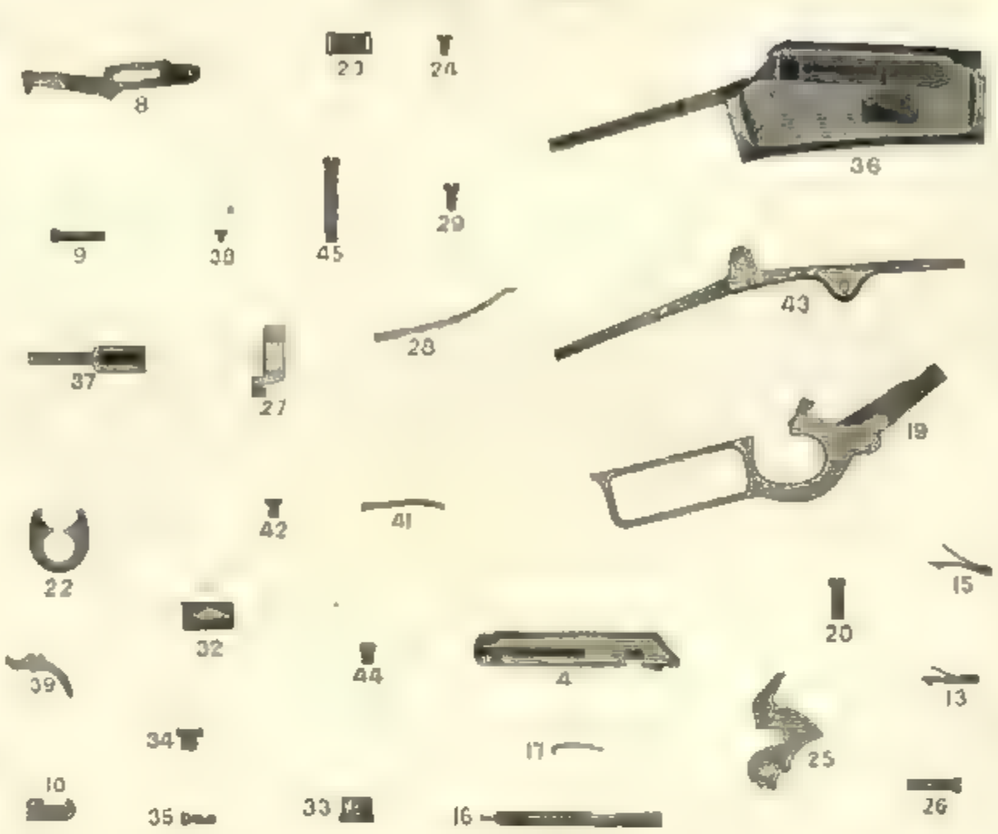
# COMPONENT PARTS OF MARLIN RIFLES.

## MODEL 1893.



| No. | | |
|---|---|---|
| 4 | Breech Bolt | $2 50 |
| 5 | Butt Stock | 1 50 |
| 6 | Butt Plate | .80 |
| 7 | Butt Plate Screws (2) | .10 |
| 8 | Carrier | 2 00 |
| 9 | Carrier Screw | 05 |
| 10 | Carrier Rocker | .35 |
| 11 | Carrier Rocker Spring | 05 |
| 12 | Carrier Rocker Pin | 04 |
| 13 | Extractor | 30 |
| 14 | Extractor Pin | .04 |
| 15 | Ejector | 30 |
| 16 | Firing Pin (2 pieces | 60 |
| 17 | Firing Pin Spring | 05 |
| 18 | Firing Pin Pin | 04 |
| 19 | Finger Lever (with Friction Plunger) | 2.00 |
| 20 | Finger Lever Screw | 05 |
| 21 | Forearm | 60 |
| 22 | Forearm Tip | 60 |
| 23 | Forearm Tip Tenon | 35 |
| 24 | Forearm Tip Tenon Screws (2) | 10 |
| 25 | Hammer | .60 |
| 26 | Hammer Screw | 10 |
| 27 | Locking Bolt | 75 |
| 28 | Mainspring | 30 |
| 29 | Mainspring Screw | .05 |
| 30 | Magazine Tube | $1 50 |
| 31 | Magazine Tube Spring | .20 |
| 32 | Magazine Tube Spring Follower | .10 |
| 33 | Magazine Tube Plug | 10 |
| 34 | Magazine Tube Stud | 15 |
| 35 | Magazine Tube Stud Screw | 05 |
| 36 | Receiver | 8 00 |
| 37 | Loading Spring Cover | .50 |
| 38 | Loading Spring Cover Screw | 05 |
| 39 | Trigger | 45 |
| 40 | Trigger Pin | 04 |
| 41 | Trigger Spring | 15 |
| 42 | Trigger Spring Screw | 05 |
| 43 | Trigger Plate | 2 00 |
| 44 | Trigger Plate Screw | 05 |
| 45 | Trigger Plate Support Screw | 05 |
| 46 | Tang Screw | 10 |
| 47 | Front Band for Carbine | 35 |
| 48 | Front Band for Carbine Screw | 05 |
| 49 | Rear Band for Carbine | 35 |
| 50 | Rear Band for Carbine Screw | 05 |
| 52 | Butt Plate for Carbine | 80 |
| 54 | Stock Swivel and Screw | 40 |
| 55 | Tip Swivel | 40 |
| 56 | Dummy Screw (to fill Sight Screw Holes in Tang | 04 |

## MODEL 1894.



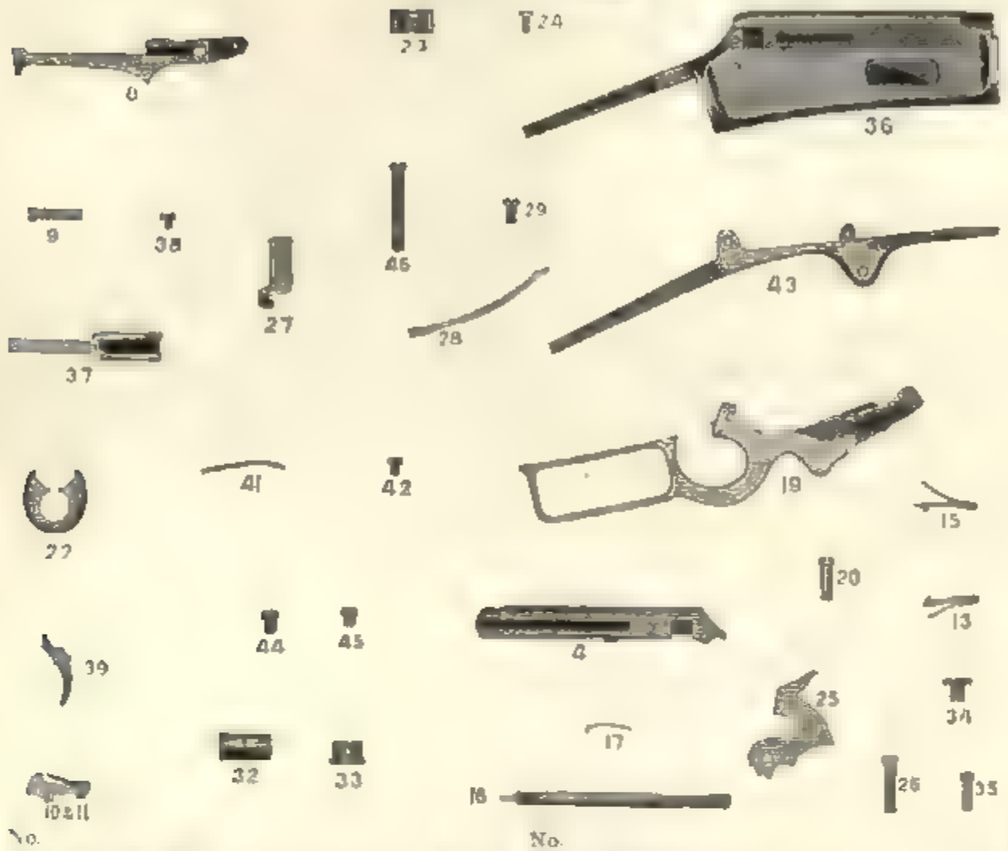
| No. | | |
|---|---|---|
| 4 | Breech Bolt | $2.00 |
| 5 | Butt Stock | 1.50 |
| 6 | Butt Plate | .80 |
| 7 | Butt Plate Screws (2) | .10 |
| 8 | Carrier | 1.30 |
| 9 | Carrier Screw | 05 |
| 10 | Carrier Rocker | 35 |
| 12 | Carrier Pin | .04 |
| 13 | Extractor | .30 |
| 14 | Extractor Pin | 01 |
| 15 | Ejector | .30 |
| 16 | Firing Pin (2 pieces) | 60 |
| 17 | Firing Pin Spring | 05 |
| 18 | Firing Pin Pin | 04 |
| 19 | Finger Lever (with friction plunger) | 1.75 |
| 20 | Finger Lever Screw | .05 |
| 21 | Forearm | 60 |
| 22 | Forearm Tip | 60 |
| 23 | Forearm Tip Tenon | 35 |
| 24 | Forearm Tip Tenon Screws (2) | 10 |
| 25 | Hammer | 60 |
| 26 | Hammer Screw | .10 |
| 27 | Locking Bolt | 75 |
| 28 | Mainspring | 30 |
| 29 | Mainspring Screw | 05 |
| 30 | Magazine Tube | 1 50 |
| 31 | Magazine Tube Spring | 20 |
| 32 | Magazine Tube Spring Follower | $0.10 |
| 33 | Magazine Tube Plug | .10 |
| 34 | Magazine Tube Stud | .15 |
| 35 | Magazine Tube Stud Screw | 05 |
| 36 | Receiver | 7 00 |
| 37 | Loading Spring Cover | 30 |
| 38 | Loading Spring Cover Screw | .05 |
| 39 | Trigger | .45 |
| 40 | Trigger Pin | .04 |
| 41 | Trigger Spring | .15 |
| 42 | Trigger Spring Screw | .05 |
| 43 | Trigger Plate | 60 |
| 44 | Trigger Plate Screw | 05 |
| 45 | Tang Screw | .10 |
| 46 | Front Band for Carbine | .35 |
| 47 | Front Band for Carbine Screw | 05 |
| 48 | Rear Band for Carbine | 35 |
| 49 | Rear Band for Carbine Screw | 05 |
| 50 | Magazine Tube Plug Screw for Carbine | 05 |
| 51 | Butt Plate for Carbine | 80 |
| 52 | Sling Ring and Staple for Carbine | 30 |
| 53 | Stock Swivel and Screw | 40 |
| 54 | Tip Swivel | 40 |
| 55 | Dummy Screws to fill Sight Screw Holes in Tang of rifle | 04 |

PACIFIC HARDWARE & STEEL CO.

SAN FRANCISCO, CALIFORNIA

# COMPONENT PARTS OF MARLIN RIFLES.

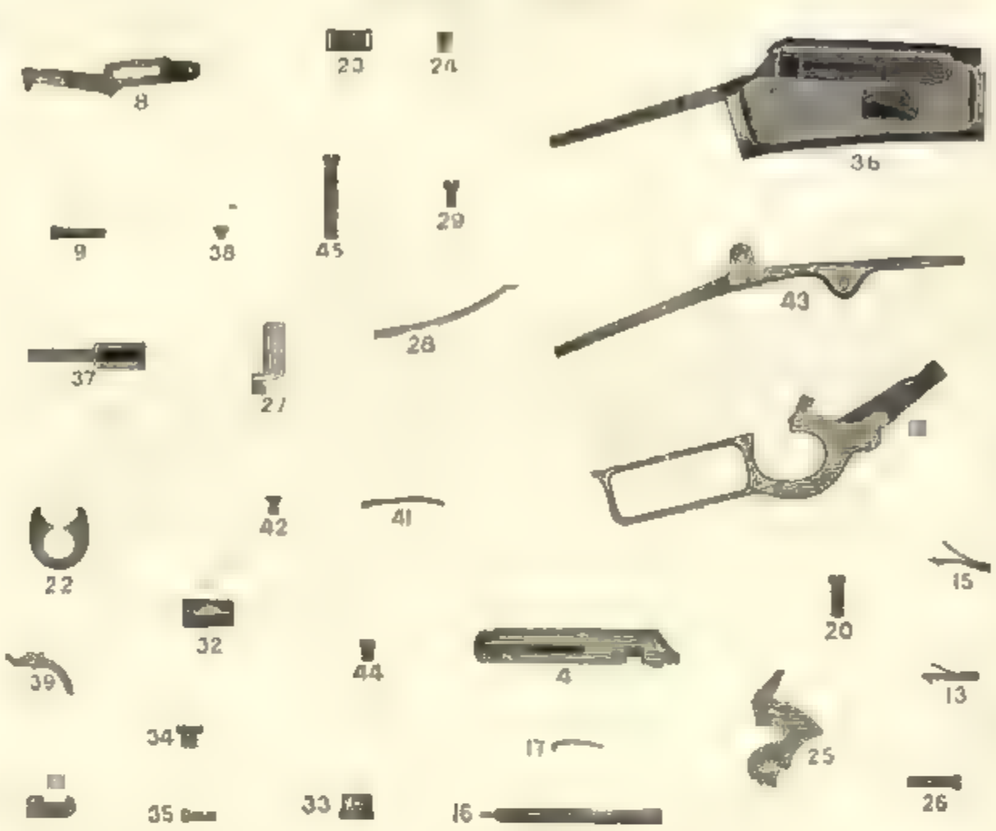
## MODEL 1893.




| No. | | |
|---|---|---|
| 4 | —Breech Bolt | $2 50 |
| 5 | —Butt Stock | 1 50 |
| 6 | —Butt Plate | .80 |
| 7 | —Butt Plate Screws (2 | .10 |
| 8 | —Carrier | 2.00 |
| 9 | —Carrier Screw | 05 |
| 10 | —Carrier Rocker | .35 |
| 11 | —Carrier Rocker Spring | .05 |
| 12 | —Carrier Rocker Pin | 04 |
| 13 | —Extractor | 30 |
| 14 | —Extractor Pin | .04 |
| 15 | —Ejector | 30 |
| 16 | —Firing Pin (2 pieces | 60 |
| 17 | —Firing Pin Spring | .05 |
| 18 | —Firing Pin Pin | .04 |
| 19 | —Finger Lever (with Friction Plunger) | 2.00 |
| 20 | —Finger Lever Screw | .05 |
| 21 | —Forearm | .60 |
| 22 | —Forearm Tip | .60 |
| 23 | —Forearm Tip Tenon | 35 |
| 24 | —Forearm Tip Tenon Screws (2) | .10 |
| 25 | —Hammer | .60 |
| 26 | —Hammer Screw | .10 |
| 27 | —Locking Bolt | .75 |
| 28 | —Mainspring | .30 |
| 29 | —Mainspring Screw | .05 |

| No. | | |
|---|---|---|
| 30 | —Magazine Tube | $1.50 |
| 31 | —Magazine Tube Spring | .20 |
| 32 | —Magazine Tube Spring Follower | .10 |
| 33 | —Magazine Tube Plug | .10 |
| 34 | —Magazine Tube Stud | .15 |
| 35 | —Magazine Tube Stud Screw | .05 |
| 36 | —Receiver | 8 00 |
| 37 | —Loading Spring Cover | 50 |
| 38 | —Loading Spring Cover Screw | 05 |
| 39 | —Trigger | 45 |
| 40 | —Trigger Pin | .04 |
| 41 | —Trigger Spring | .15 |
| 42 | —Trigger Spring Screw | 05 |
| 43 | —Trigger Plate | 2.00 |
| 44 | —Trigger Plate Screw | .05 |
| 45 | —Trigger Plate Support Screw | 05 |
| 46 | —Tang Screw | .10 |
| 47 | —Front Band for Carbine | .35 |
| 48 | —Front Band for Carbine Screw | .05 |
| 49 | —Rear Band for Carbine | 35 |
| 50 | —Rear Band for Carbine Screw | .05 |
| 52 | —Butt Plate for Carbine | .80 |
| 54 | —Stock Swivel and Screw | .40 |
| 55 | —Tip Swivel | .40 |
| 56 | —Dummy Screw (to fill Sight Screw Holes in Tang) | .04 |

## MODEL 1894.



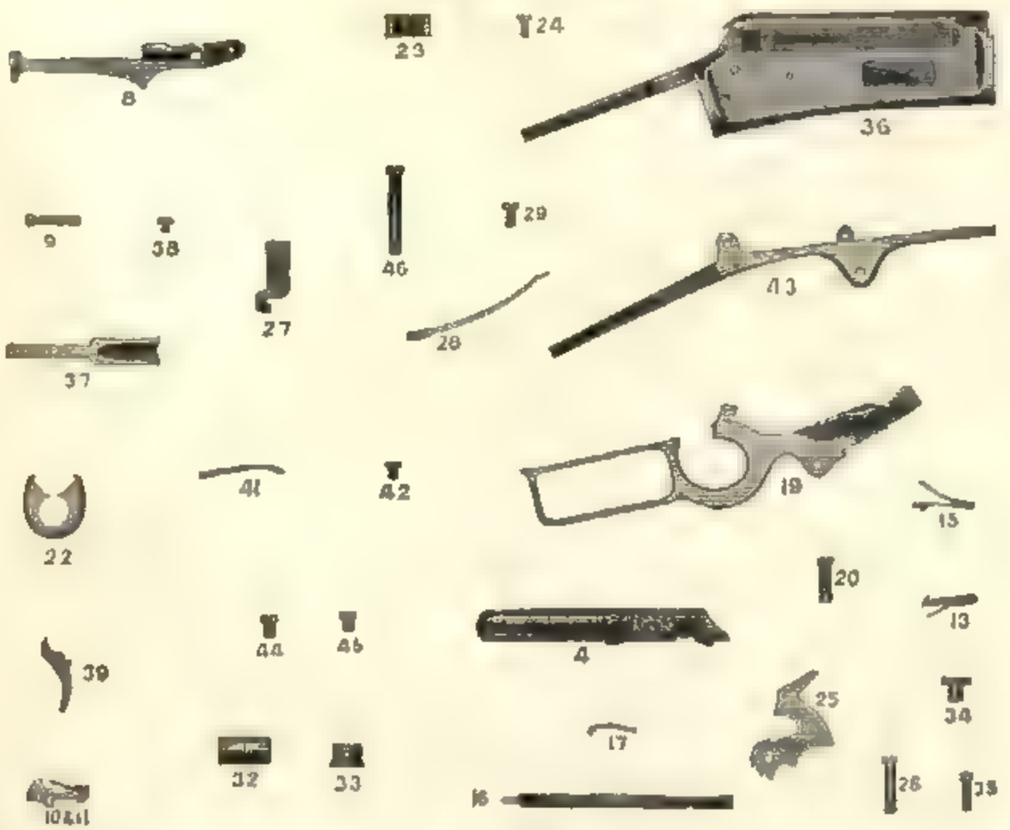

| No. | | |
|---|---|---|
| 4 | —Breech Bolt | $2.00 |
| 5 | —Butt Stock | 1.50 |
| 6 | —Butt Plate | .80 |
| 7 | —Butt Plate Screws (2) | .10 |
| 8 | —Carrier | 1.30 |
| 9 | —Carrier Screw | 05 |
| 10 | —Carrier Rocker | .35 |
| 12 | —Carrier Pin | .04 |
| 13 | —Extractor | 30 |
| 14 | —Extractor Pin | 04 |
| 15 | —Ejector | .30 |
| 16 | —Firing Pin (2 pieces) | .60 |
| 17 | —Firing Pin Spring | .05 |
| 18 | —Firing Pin Pin | 04 |
| 19 | —Finger Lever (with friction plunger) | 1.75 |
| 20 | —Finger Lever Screw | .05 |
| 21 | —Forearm | .60 |
| 22 | —Forearm Tip | .60 |
| 23 | —Forearm Tip Tenon | 35 |
| 24 | —Forearm Tip Tenon Screws (2) | .10 |
| 25 | —Hammer | .60 |
| 26 | —Hammer Screw | .10 |
| 27 | —Locking Bolt | .75 |
| 28 | —Mainspring | .30 |
| 29 | —Mainspring Screw | .05 |
| 30 | —Magazine Tube | 1.50 |
| 31 | —Magazine Tube Spring | .20 |

| No. | | |
|---|---|---|
| 32 | —Magazine Tube Spring Follower | $0.10 |
| 33 | —Magazine Tube Plug | .10 |
| 34 | —Magazine Tube Stud | .15 |
| 35 | —Magazine Tube Stud Screw | .05 |
| 36 | —Receiver | 7 00 |
| 37 | —Loading Spring Cover | 30 |
| 38 | —Loading Spring Cover Screw | .05 |
| 39 | —Trigger | .45 |
| 40 | —Trigger Pin | .04 |
| 41 | —Trigger Spring | .15 |
| 42 | —Trigger Spring Screw | .05 |
| 43 | —Trigger Plate | 1.80 |
| 44 | —Trigger Plate Screw | 05 |
| 45 | —Tang Screw | .10 |
| 46 | —Front Band for Carbine | .35 |
| 47 | —Front Band for Carbine Screw | 05 |
| 48 | —Rear Band for Carbine | .35 |
| 49 | —Rear Band for Carbine Screw | 05 |
| 50 | —Magazine Tube Plug Screw for Carbine | .05 |
| 51 | —Butt Plate for Carbine | .80 |
| 52 | —Sling Ring and Staple for Carbine | .30 |
| 53 | —Stock Swivel and Screw | .40 |
| 54 | —Tip Swivel | .40 |
| 55 | —Dummy Screws (to fill Sight Screw Holes in Tang of rifle) | .04 |

PACIFIC HARDWARE & STEEL CO.
SAN FRANCISCO, CALIFORNIA

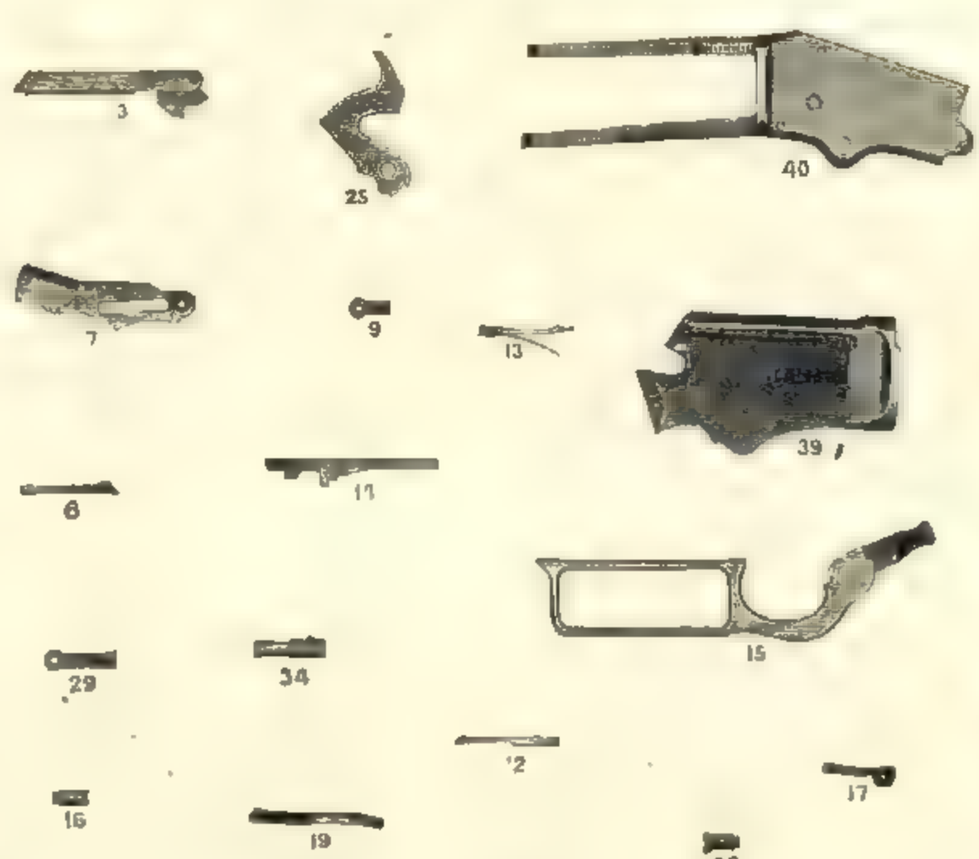
# COMPONENT PARTS OF MARLIN RIFLES.

## MODEL 1895.




| No. | | |
|---|---|---|
| 4 | Breech Bolt | $1 00 |
| 5 | Butt Stock | 1 50 |
| 6 | Butt Plate | 80 |
| 7 | Butt Plate Screws (2) | 10 |
| 8 | Carrier | 2 00 |
| 9 | Carrier Screw | 05 |
| 10 | Carrier Rocker | .35 |
| 11 | Carrier Rocker Spring | 05 |
| 12 | Carrier Rocker Pin | 04 |
| 13 | Extractor | 30 |
| 14 | Extractor Pin | 04 |
| 15 | Ejector | 30 |
| 16 | Firing Pin (2 pieces) | .60 |
| 17 | Firing Pin Spring | 05 |
| 18 | Firing Pin Pin | 04 |
| 19 | Finger Lever (with friction plunger) | 2.00 |
| 20 | Finger Lever Screw | .05 |
| 21 | Forearm | .60 |
| 22 | Forearm Tip | 60 |
| 23 | Forearm Tip Tenon | 35 |
| 24 | Forearm Tip Tenon Screws (2) | .10 |
| 25 | Hammer | .75 |
| 26 | Hammer Screw | 10 |
| 27 | Locking Bolt | 75 |
| 28 | Mainspring | 30 |
| 29 | Mainspring Screw | .05 |
| 30 | Magazine Tube | $1 50 |
| 31 | Magazine Tube Spring | 20 |
| 32 | Magazine Tube Spring Follower | 10 |
| 33 | Magazine Tube Plug | .10 |
| 34 | Magazine Tube Stud | 15 |
| 35 | Magazine Tube Stud Screw | .05 |
| 36 | Receiver | 0.00 |
| 37 | Loading Spring Cover | 50 |
| 38 | Loading Spring Cover Screw | .05 |
| 39 | Trigger | .45 |
| 40 | Trigger Pin | .04 |
| 41 | Trigger Spring | .15 |
| 42 | Trigger Spring Screw | 05 |
| 43 | Trigger Plate | 2 00 |
| 44 | Trigger Plate Screw | .05 |
| 45 | Trigger Plate Support Screw | .05 |
| 46 | Tang Screw | .10 |
| 47 | Front Band for Carbine | .35 |
| 48 | Front Band for Carbine Screw | .05 |
| 49 | Rear Band for Carbine | .35 |
| 50 | Rear Band for Carbine Screw | .05 |
| 52 | Butt Plate for Carbine | 80 |
| 54 | Stock Swivel and Screw | .40 |
| 55 | Tip Swivel | 40 |
| 56 | Dummy Screw (to fill Sight Screw Holes in Tang) | .04 |

## MODEL 1897.

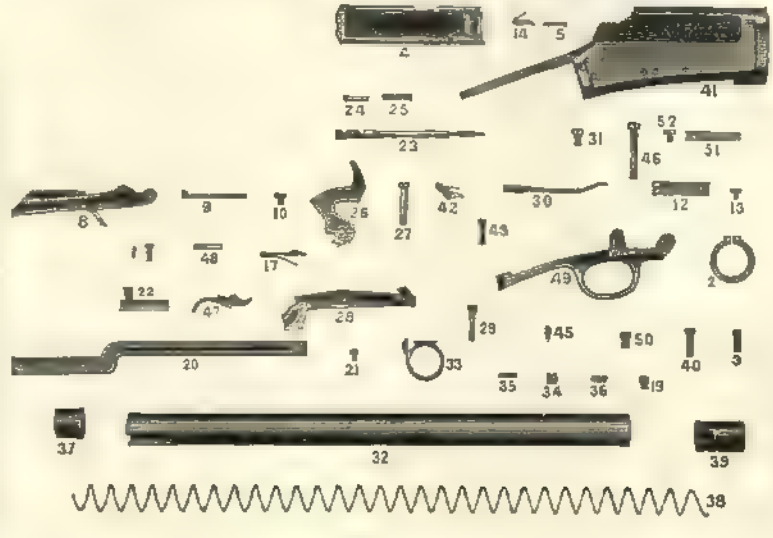



| No. | | |
|---|---|---|
| 3 | Breech Bolt | $2.00 |
| 4 | Butt Stock | 1.50 |
| 5 | Butt Plate | 80 |
| 6 | Butt Plate Screws (2) | .10 |
| 7 | Carrier | 1 30 |
| 8 | Carrier Rocker | .35 |
| 9 | Carrier Rocker Spring | .15 |
| 10 | Carrier Rocker Spring Screw | 05 |
| 11 | Carrier Screw | .10 |
| 12 | Extractor | .30 |
| 13 | Ejector | .30 |
| 14 | Firing Pin | 60 |
| 15 | Finger Lever | 1 50 |
| 16 | Finger Lever Screw | .10 |
| 17 | Finger Lever Spring | .25 |
| 18 | Finger Lever Spring Screw | 10 |
| 19 | Cartridge Stop | 30 |
| 20 | Cartridge Stop Screw | 05 |
| 21 | Forearm | 60 |
| 22 | Forearm Tip | 60 |
| 23 | Forearm Tip Tenon | 35 |
| 24 | Forearm Tip Tenon Screws (2) | 10 |
| 25 | Hammer | 60 |
| 26 | Hammer Screw | .10 |
| 27 | Mainspring | $0 30 |
| 28 | Mainspring Screw | 05 |
| 29 | Magazine Cartridge Cut-off | 10 |
| 30 | Magazine Cartridge Cut-off Screw | 10 |
| 31 | Magazine Tube (outside) | 1 50 |
| 32 | Magazine Tube (inside) | 1 50 |
| 33 | Magazine Tube Spring | 20 |
| 34 | Magazine Tube Spring Follower | 15 |
| 35 | Magazine Tube Plug | 25 |
| 36 | Magazine Tube Plug Pin | 05 |
| 37 | Magazine Tube Stud | 15 |
| 38 | Magazine Tube Stud Screw | 05 |
| 39 | Receiver (left side) | 5 00 |
| 40 | Receiver (right side) | 5 00 |
| 41 | Trigger | 45 |
| 42 | Trigger Pin | 04 |
| 43 | Trigger Spring | 10 |
| 44 | Trigger Spring Screw | 05 |
| 45 | Tang Screw | 10 |
| 46 | Thumb Screw | 25 |
| 47 | Dummy Screw (to fill Sight Screw Hole in Tang) | 04 |

# COMPONENT PARTS MARLIN SHOTGUNS AND RIFLES.

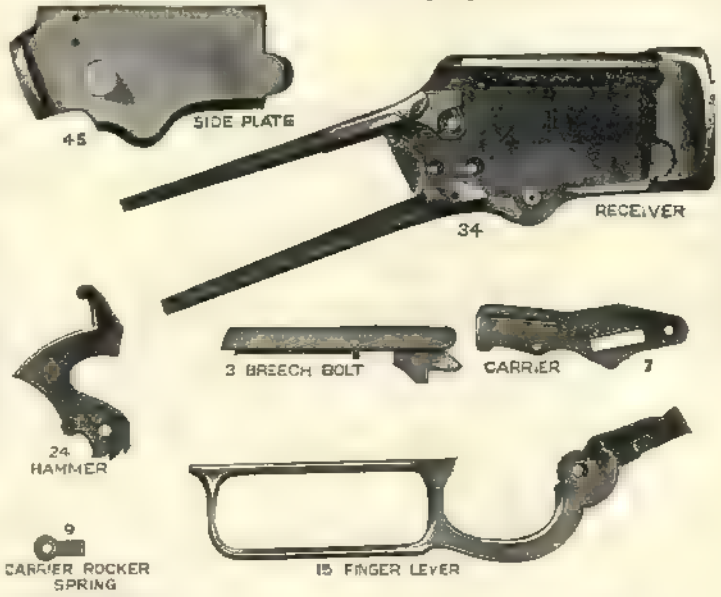
## MODEL 1898 SHOTGUN.

| No. | | |
|---|---|---|
| 1 | Barrel | $10 00 |
| 2 | Barrel Lock Nut | .60 |
| 3 | Barrel Lock Nut Screw | .10 |
| 4 | Breech-bolt | 3 00 |
| 5 | Butt Stock, grade "A" | 2.75 |
| 6 | Butt Plate | .85 |
| 7 | Butt Plate Screws (2) | Each, .10 |
| 8 | Carrier | 2.00 |
| 9 | Carrier Cartridge Stop | .40 |
| 10 | Carrier Cartridge Stop Screw | .10 |
| 11 | Carrier Screw | .10 |
| 12 | Cartridge Stop in Frame | .40 |
| 13 | Cartridge Stop in Frame Screw | .10 |
| 14 | Extractor | .40 |
| 15 | Extractor Pin | .10 |
| 16 | Extractor Spring | .10 |
| 17 | Ejector | .40 |
| 18 | Fore-end | 1.00 |
| 19 | Fore-end Screws (2) | Each, .10 |
| 20 | Fore-end Slide | 1.00 |
| 21 | Fore-end Slide Screw in Band | .10 |
| 22 | Fore-end Slide Stop | .50 |
| 22 (a) | Fore-end Slide Stop Spring | 10 |
| 22 (b) | Fore-end Slide Stop Spring Screw | 10 |
| 23 | Firing Pin | $0 50 |
| 24 | Firing-pin Pin | 10 |
| 25 | Firing-pin Spring | 10 |
| 26 | Hammer | .75 |
| 27 | Hammer Screw | .15 |
| 28 | Locking Bolt | 1.50 |
| 29 | Locking Bolt Pin | .10 |
| 29 (a) | Locking Bolt Pin Screw | .10 |
| 30 | Mainspring | 35 |
| 31 | Mainspring Screw | 10 |
| 32 | Magazine Tube | 1.00 |
| 33 | Magazine Tube Band | $0.90 |
| 34 | Magazine Tube Catch | .20 |
| 35 | Magazine Tube Catch Pin | .10 |
| 36 | Magazine Tube Catch Spring | .10 |
| 37 | Magazine Tube Follower | .50 |
| 38 | Magazine Tube Follower Spring | .30 |
| 39 | Magazine Tube Plug | .75 |
| 40 | Magazine Tube Plug Screw | .10 |
| 41 | Receiver | 9 [illegible] |
| 42 | Sear | .50 |
| 43 | Sear Screw | $0.10 |
| 44 | Sear Spring | .10 |
| 45 | Sight, front | .20 |
| 46 | Tang Screw | 15 |
| 47 | Trigger | .60 |
| 48 | Trigger Pin | .10 |
| 49 | Trigger Plate or Guard | 2.00 |
| 50 | Trigger Plate Screws (2) | .20 |
| 51 | Trigger Spring | .20 |
| 52 | Trigger Spring Screw | .10 |




## MODEL 1892 RIFLE.

| No. | | |
|---|---|---|
| 1 | Barrel, Round, 24-in. | $6 25 |
| 2 | Barrel, Octagon or Half-Octagon, 24-in. | 8 00 |
| 3 | Breech-Bolt | 2.00 |
| 4 | Butt Stock | 1.50 |
| 5 | Butt Plate | .80 |
| 6 | Butt Plate Screws (2) | .10 |
| 7 | Carrier | 1.30 |
| 8 | Carrier Rocker | .35 |
| 9 | Carrier Rocker Spring | 15 |
| 10 | Carrier Rocker Spring Screw | 50 |
| 11 | Extractor | 30 |
| 12 | Ejector | 30 |
| 14 | Firing Pin | 60 |
| 15 | Finger Lever | 1 50 |
| 16 | Finger Lever Spring | 25 |
| 17 | Finger Lever Spring Screw | 05 |
| 18 | Cartridge Stop (.22 Cal. only) | 30 |
| 19 | Cartridge Stop Screw (.22 Cal. only) | 05 |
| 20 | Forearm | 60 |
| 21 | Forearm Tip | 60 |
| 22 | Forearm Tip Tenon | .35 |
| 23 | Forearm Tip Tenon Screws (2) | .10 |
| 24 | Hammer | .60 |
| 25 | Hammer Screw | .10 |
| 26 | Magazine Cartridge Cut off | .40 |
| 27 | Magazine Cartridge Cut-off Screw | .10 |
| 28 | Magazine Tube (Outside) | 1 50 |
| 29 | Magazine Tube (inside) | $1.50 |
| 30 | Magazine Tube Spring Follower | 15 |
| 31 | Magazine Tube Spring | .20 |
| 32 | Magazine Tube Plug | .25 |
| 33 | Magazine Tube Plug Pin | .05 |
| 34 | Receiver | 7.00 |
| 35 | Magazine Tube Stud | .15 |
| 36 | Magazine Tube Stud Screw | .05 |
| 37 | Mainspring | .30 |
| 38 | Mainspring Screw | .05 |
| 39 | Side Plate Screw | .20 |
| 40 | Trigger | .45 |
| 41 | Trigger Pin | 04 |
| 42 | Trigger Spring | .10 |
| 43 | Tang Screw | .10 |
| 44 | Dummy screw to fill Sight Screw Hole in Tang | .04 |
| 45 | Side Plate | 1.50 |

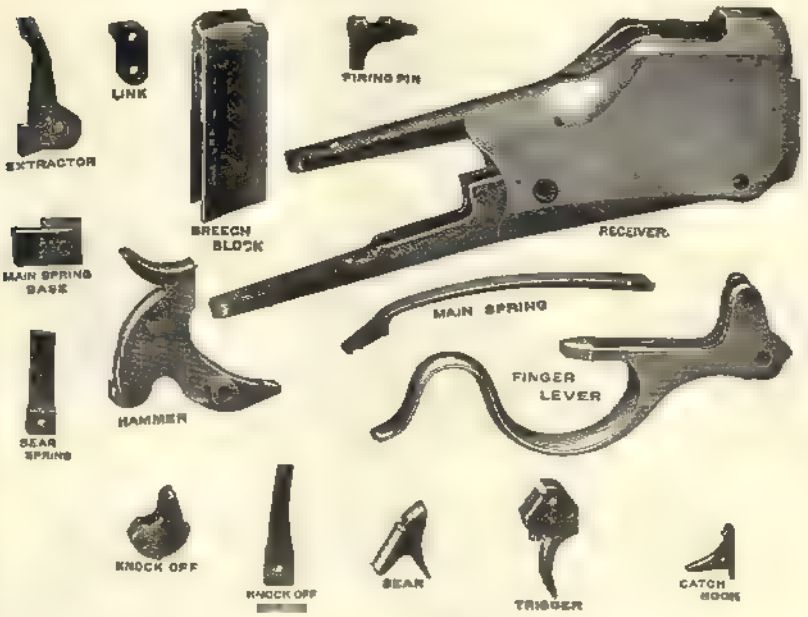



## MODEL 1891.

| | | |
|---|---|---|
| 50 | Safety Catch | $0 30 |
| 51 | Safety Catch Pin | .04 |
| 42 | Sear | .30 |
| 43 | Sear Spring | 10 |
| 44 | Sear Spring Screw | 05 |
| 55 | Trigger | .30 |

PACIFIC HARDWARE & STEEL COMPANY

# COMPONENT PARTS OF WINCHESTER SINGLE SHOT RIFLES.



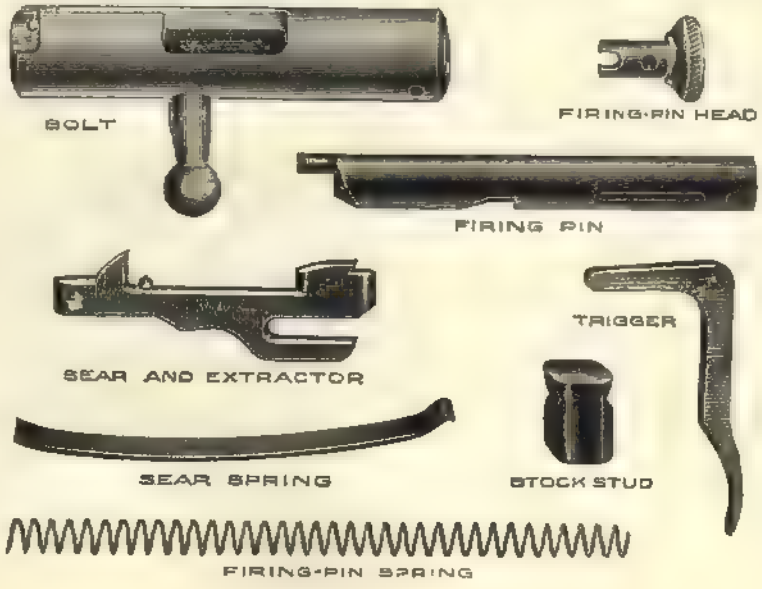

| No. | | |
|---|---|---|
| 1 | Barrel, Round, 30 inch or under | $ 7 00 |
| 2 | Barrel, Round, for .30 U. S. Cartridge | 10 00 |
| 3 | Barrel, Octagon, 30 inch or under | 8 00 |
| 4 | Breech-block | 1 00 |
| 5 | Butt Plate | .80 |
| 6 | Butt Plate Screws (2) | Each, 05 |
| 7 | Butt Stock | 1 40 |
| 8 | Extractor | .40 |
| 9 | Ejector Spring, for .22 Caliber only | .30 |
| 10 | Ejector Spring Screw | 05 |
| 11 | Forearm | 1.00 |
| 12 | Forearm Stud | .15 |
| 13 | Forearm Screw | .05 |

| No. | | |
|---|---|---|
| 14 | Finger Lever | $1.50 |
| 15 | Finger Lever Pin | 05 |
| 16 | Finger Lever Pin Screw | 05 |
| 17 | Firing Pin | 30 |
| 18 | Firing Pin Stop Screw | .05 |
| 19 | Hammer, plain | .90 |
| 20 | Hammer Pin | 05 |
| 21 | Knock-off | .40 |
| 22 | Knock-off Pin | .03 |
| 23 | Knock-off Spring, plain lock | .25 |

| No. | | |
|---|---|---|
| 24 | Knock-off Spring, screw nut | $0 05 |
| 25 | Link | 20 |
| 26 | Link Pin, long | 05 |
| 27 | Link Pin, short | 05 |
| 28 | Mainspring | .40 |
| 29 | Mainspring Base | .25 |
| 30 | Mainspring Screw | .05 |
| 31 | Receiver, complete with tang | 6 00 |
| 32 | Receiver Tang, separate from Receiver | 1.20 |

| No. | | |
|---|---|---|
| 33 | Side Tang Screws 2 | Each $0 05 |
| 34 | Sear | .30 |
| 35 | Sear Spring | 30 |
| 36 | Sear Spring Screw | 05 |
| 37 | Sear Pin | 05 |
| 38 | Trigger | 50 |
| 39 | Trigger Pin | .05 |
| 40 | Tang Screw, upper | 10 |
| 41 | Tang Screw, lower | .05 |

# COMPONENT PARTS OF MODEL 1902 SINGLE SHOT RIFLES.

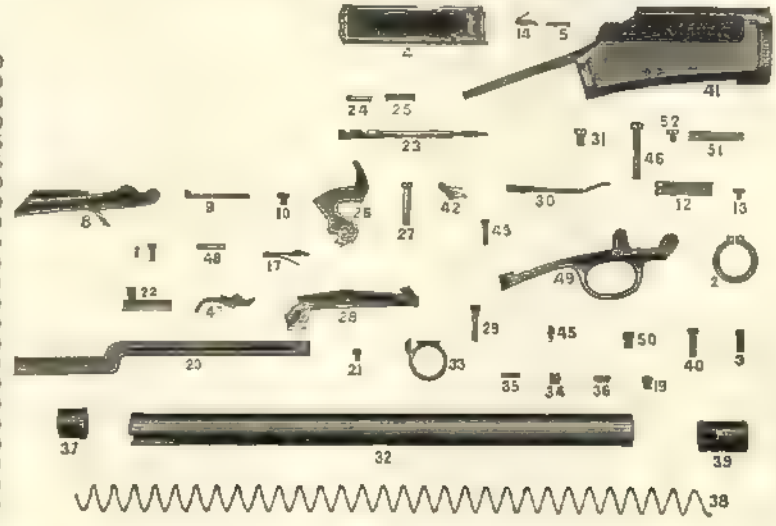



| No. | | |
|---|---|---|
| 1 | Bolt | $0.80 |
| 2 | Firing Pin | .75 |
| 3 | Firing Pin Head | .25 |
| 4 | Firing Pin Spring | .10 |
| 5 | Sear and Extractor | .60 |
| 6 | Sear Spring | .10 |
| 7 | Stock Stud | .20 |
| 8 | Trigger | .25 |

# COMPONENT PARTS MARLIN SHOTGUNS AND RIFLES.

## MODEL 1898 SHOTGUN.

| No. | | |
|---|---|---|
| 1 | Barrel | $10 00 |
| 2 | Barrel Lock Nut | .60 |
| 3 | Barrel Lock Nut Screw | .10 |
| 4 | Breech-bolt | 3.00 |
| 5 | Butt Stock, grade "A" | 2.75 |
| 6 | Butt Plate | .85 |
| 7 | Butt Plate Screws (2) | Each, .10 |
| 8 | Carrier | 2.00 |
| 9 | Carrier Cartridge Stop | .40 |
| 10 | Carrier Cartridge Stop Screw | .10 |
| 11 | Carrier Screw | .10 |
| 12 | Cartridge Stop in Frame | .40 |
| 13 | Cartridge Stop in Frame Screw | .10 |
| 14 | Extractor | .40 |
| 15 | Extractor Pin | .10 |
| 16 | Extractor Spring | .10 |
| 17 | Ejector | .40 |
| 18 | Fore-end | 1.00 |
| 19 | Fore-end Screws (2) | Each, .10 |
| 20 | Fore-end Slide | 1.00 |
| 21 | Fore-end Slide Screw in Band | .10 |
| 22 | Fore-end Slide Stop | .50 |
| 22 (a) | Fore-end Slide Stop Spring | .10 |
| 22 (b) | Fore-end Slide Stop Spring Screw | .10 |
| 23 | Firing Pin | $0 50 |
| 24 | Firing-pin Pin | .10 |
| 25 | Firing pin Spring | 10 |
| 26 | Hammer | .75 |
| 27 | Hammer Screw | .15 |
| 28 | Locking Bolt | 1 50 |
| 29 | Locking Bolt Pin | 10 |
| 29 (a) | Locking Bolt Pin Screw | 10 |
| 30 | Mainspring | 35 |
| 31 | Mainspring Screw | .10 |
| 32 | Magazine Tube | 1.00 |
| 33 | Magazine Tube Band | $0.90 |
| 34 | Magazine Tube Catch | 20 |
| 35 | Magazine Tube Catch Pin | 10 |
| 36 | Magazine Tube Catch Spring | .10 |
| 37 | Magazine Tube Follower | .50 |
| 38 | Magazine Tube Follower Spring | .30 |
| 39 | Magazine Tube Plug | 75 |
| 40 | Magazine Tube Plug Screw | .10 |
| 41 | Receiver | 9 00 |
| 42 | Sear | .50 |
| 43 | Sear Screw | $0 10 |
| 44 | Sear Spring | .10 |
| 45 | Sight, front | .20 |
| 46 | Tang Screw | 15 |
| 47 | Trigger | .50 |
| 48 | Trigger Pin | .10 |
| 49 | Trigger Plate or Guard | 2.00 |
| 50 | Trigger Plate Screws (2) | .20 |
| 51 | Trigger Spring | .20 |
| 52 | Trigger Spring Screw | .10 |



## MODEL 1892 RIFLE.

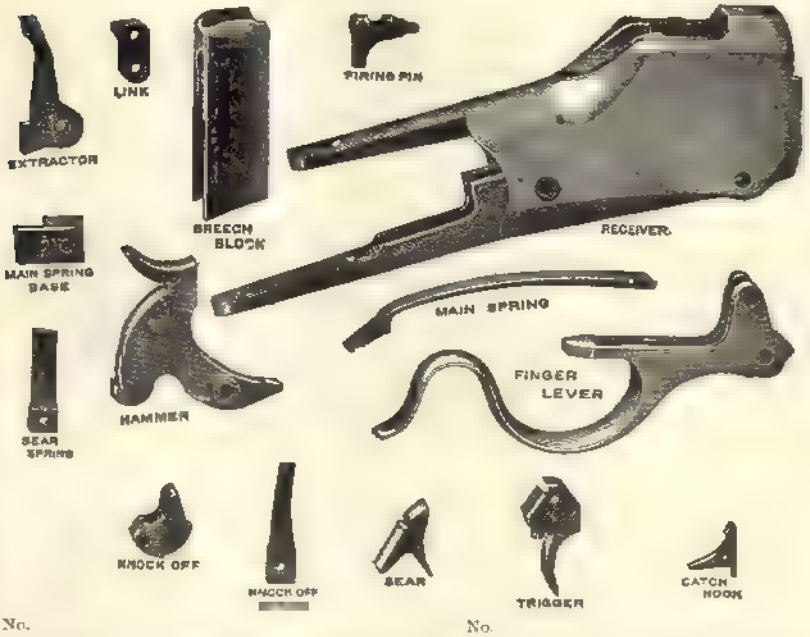
| No. | | |
|---|---|---|
| 1 | Barrel, Round, 24-in., | $0 25 |
| 2 | Barrel, Octagon or Half-Octagon, 24-in. | 8 00 |
| 3 | Breech-Bolt | 2.00 |
| 4 | Butt Stock | 1.50 |
| 5 | Butt Plate | .80 |
| 6 | Butt Plate Screws (2) | .10 |
| 7 | Carrier | 1.30 |
| 8 | Carrier Rocker | .35 |
| 9 | Carrier Rocker Spring | .15 |
| 10 | Carrier Rocker Spring Screw | 50 |
| 11 | Extractor | .30 |
| 12 | Ejector | 30 |
| 14 | Firing Pin | 60 |
| 15 | Finger Lever | 1 50 |
| 16 | Finger Lever Spring | 25 |
| 17 | Finger Lever Spring Screw | 05 |
| 18 | Cartridge Stop (.22 Cal. only) | .30 |
| 19 | Cartridge Stop Screw (.22 Cal only) | 05 |
| 20 | Forearm | 60 |
| 21 | Forearm Tip | .60 |
| 22 | Forearm Tip Tenon | .35 |
| 23 | Forearm Tip Tenon Screws (2) | .10 |
| 24 | Hammer | .60 |
| 25 | Hammer Screw | .10 |
| 26 | Magazine Cartridge Cut off | .40 |
| 27 | Magazine Cartridge Cut-off Screw | .10 |
| 28 | Magazine Tube (Outside) | 1 50 |
| 29 | Magazine Tube (inside) | $1.50 |
| 30 | Magazine Tube Spring Follower | 15 |
| 31 | Magazine Tube Spring | .20 |
| 32 | Magazine Tube Plug | .25 |
| 33 | Magazine Tube Plug Pin | .05 |
| 34 | Receiver | 7.00 |
| 35 | Magazine Tube Stud | .15 |
| 36 | Magazine Tube Stud Screw | .05 |
| 37 | Mainspring | .30 |
| 38 | Mainspring Screw | .05 |
| 39 | Side Plate Screw | .20 |
| 40 | Trigger | .45 |
| 41 | Trigger Pin | 04 |
| 42 | Trigger Spring | .10 |
| 43 | Tang Screw | .10 |
| 44 | Dummy screw (to fill Sight Screw Hole in Tang) | .04 |
| 45 | Side Plate | 1.50 |

## MODEL 1891.

| | | |
|---|---|---|
| 50 | Safety Catch | $0 30 |
| 51 | Safety Catch Pin | .04 |
| 42 | Sear | 30 |
| 43 | Sear Spring | .10 |
| 44 | Sear Spring Screw | .05 |
| 55 | Trigger | .30 |

PACIFIC HARDWARE & STEEL COMPANY

# COMPONENT PARTS OF WINCHESTER SINGLE SHOT RIFLES.



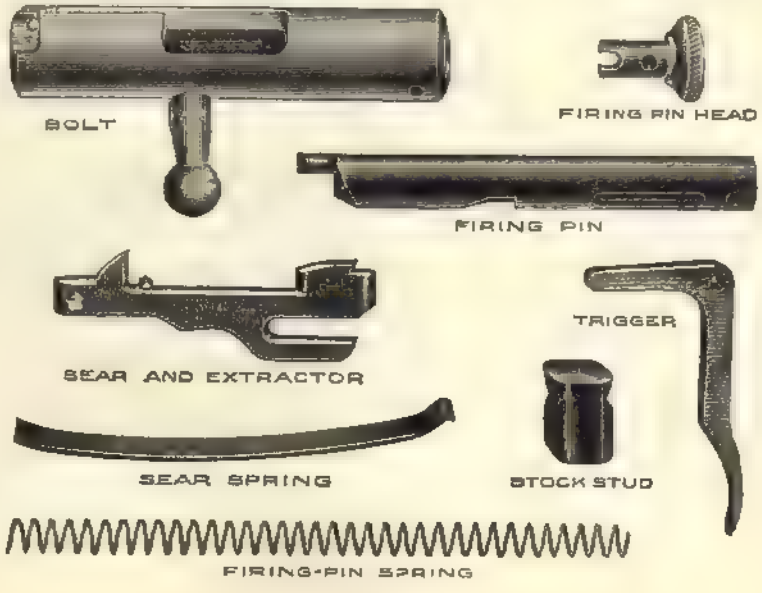

| No. | | |
|---|---|---|
| 1 | Barrel, Round, 30 inch or under | $ 7 00 |
| 2 | Barrel, Round, for .30 U. S. Cartridge | 10 00 |
| 3 | Barrel, Octagon, 30 inch or under | 8 00 |
| 4 | Breech-block | 1 00 |
| 5 | Butt Plate | .80 |
| 6 | Butt Plate Screws (2) | Each, 05 |
| 7 | Butt Stock | 1.40 |
| 8 | Extractor | 40 |
| 9 | Ejector Spring, for .22 Caliber only | 30 |
| 10 | Ejector Spring Screw | 05 |
| 11 | Forearm | 1.00 |
| 12 | Forearm Stud | .15 |
| 13 | Forearm Screw | .05 |

| No. | | |
|---|---|---|
| 14 | Finger Lever | $1 50 |
| 15 | Finger Lever Pin | 05 |
| 16 | Finger Lever Pin Screw | 05 |
| 17 | Firing Pin | 30 |
| 18 | Firing Pin Stop Screw | .05 |
| 19 | Hammer, plain | .90 |
| 20 | Hammer Pin | 05 |
| 21 | Knock-off | .40 |
| 22 | Knock-off Pin | .03 |
| 23 | Knock-off Spring, plain lock | .25 |

| No. | | |
|---|---|---|
| 24 | Knock-off Spring, screw nut | $0 05 |
| 25 | Lock | 20 |
| 26 | Link Pin, long | 05 |
| 27 | Link Pin, short | 05 |
| 28 | Mainspring | 40 |
| 29 | Mainspring Base | 25 |
| 30 | Mainspring Screw | 05 |
| 31 | Receiver, complete with tang | 6 00 |
| 32 | Receiver Tang, separate from Receiver | 1 20 |

| No. | | |
|---|---|---|
| 33 | Side Tang Screws (2) | Each $0 05 |
| 34 | Sear | .30 |
| 35 | Sear Spring | 30 |
| 36 | Sear Spring Screw | 05 |
| 37 | Sear Pin | 05 |
| 38 | Trigger | 50 |
| 39 | Trigger Pin | .05 |
| 40 | Tang Screw, upper | 10 |
| 41 | Tang Screw, lower | .05 |

# COMPONENT PARTS OF MODEL 1902 SINGLE SHOT RIFLES.




| No. | | |
|---|---|---|
| 1 | Bolt | $0.80 |
| 2 | Firing Pin | .75 |
| 3 | Firing Pin Head | .25 |
| 4 | Firing Pin Spring | 10 |
| 5 | Sear and Extractor | .60 |
| 6 | Sear Spring | .10 |
| 7 | Stock Stud | .20 |
| 8 | Trigger | .25 |

# Single Barrel Shot Guns.

## Stevens' Hammer.

No. 100

**No. 100** Top Snap, Low Rebounding Hammer, Special "Electro Steel" Barrel, Choke Bored for Nitro Powder, Pistol Grip, Walnut Stock, Rubber Butt Plate, Case Hardened Frame, Forearm Attached to Barrel, 12 Gauge, 30 inch Barrel, Weight about 6¾ lbs ..... Each, $7 50

No. 110.

**No. 110**—Top Snap, Low Rebounding Hammer, Special "Electro Steel" Barrel, Choke Bored for Nitro Powder, Automatic Shell Ejector, Checked Pistol Grip and Forearm, Pistol Grip Cap, Walnut Stock, Rubber Butt Plate, Case Hardened Frame, Forearm Fitted with Metal Joint, 12 Gauge, 30 inch Barrel, Weight about 6¾ lbs ..... Each, $8 50

## Stevens' Hammerless.

No. 140.

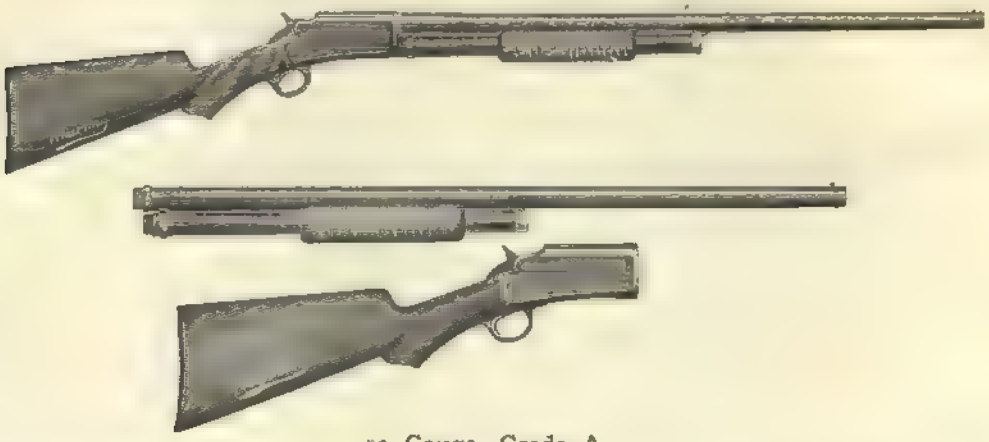
No. 140—Top Snap, Special 'Pyro-Electro' Steel Barrel, Choke Bored for Nitro Powder, Walnut Stock, Rubber Butt Plate, Case-hardened Frame. Has Pistol Grip Checked and Capped, with a Patent Forearm, Checked. This gun has a new Cocking Device, by which it cannot be opened to insert a shell until the gun is at full cock. Also has Automatic Safety making it impossible to discharge gun before it is pushed forward. Has an Automatic Shell Ejector with a special device by which operator can at will change the gun from an Ejector to an Extractor by two turns of the screw. The simplest mechanism of any hammerless gun and by removing one screw that holds the trigger guard in place, the mechanism can be removed for inspection or repair.

**No. 140**—12 Gauge, 30 in Barrel, Weight about 6¾ Pounds..... Each, $12 00
**No. 140**—16 " 28 " " " " 6½ " ..... " 12 00

For Component Parts for Stevens' Shot Guns, see Page 1086.

# Repeating Shot Guns.

## Marlin "Take Down," Model 1898.



### 12 Gauge, Grade A.

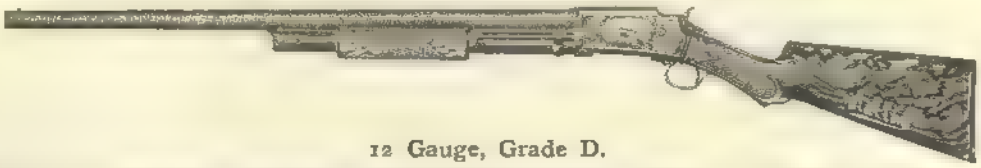
This grade gun has special rolled steel barrel with a tensile strength in excess of 60,000 pounds to the square inch. Frames are blued. Butt plates best quality rubber. Regular stocks 13½ inches long, with 1⅝ inches drop at comb and 2½ inches drop at heel. All guaranteed to target better than 325 pellets in a 30 inch circle at 40 yards, using 1¼ ounces No. 8 shot. Specially bored for smokeless or black powders and fully proved with excessive loads. Magazine holds 5 shells and with one in chamber gives 6 shots.

**Model 1898**—12 Gauge, Grade A, 28, 30 or 32 in. Barrel, Six Shots, Full Choked, Weight 7 to 7¼ lbs. . . . . Each, $24 00

### 12 Gauge, Grade C.

This grade gun has our "Special Smokeless Steel" barrel, the finest quality we can buy, and made specially for us for this use. It has a very high castle limit and a tensile strength of about 100,000 pounds to the square inch. Special care is given to the boring and finishing of this grade. The stock and forearm are of selected fancy-figured walnut, and an extra fine finish is given to the wood. The stock and forearm are neatly checked by hand, as shown in cut, and the action is tastily relieved and ornamented with a good quality of hand engraving.

**Model 1898**—12 Gauge, Grade C, 26, 28 or 30 in. Barrel, Six Shots, Full Choked, Weight 6⅞ to 7⅛ lbs. . . . . Each, $40 00



### 12 Gauge, Grade D.

This grade gun has a high quality Damascus barrel, specially bored and finished. The stock and forearm are of the finest imported "Circassian Walnut," finished by the London process of filling, giving a rich, dull surface that does not glisten nor shine and does not show scratches as plainly as the highly polished wood. The stock and forearm are checked with the finest possible hand work. The frame is elaborately engraved with fine quality hand work. Screws and trigger are of tool steel, heavily gold plated.

**Model 1898**—12 Gauge, Grade D, 26, 28 or 30 in. Barrel, Six Shots, Full Choked, Weight 6⅞ to 7⅛ lbs. . . . . Each, $95 00

For Component Parts for Model 1898, see Page 1087.

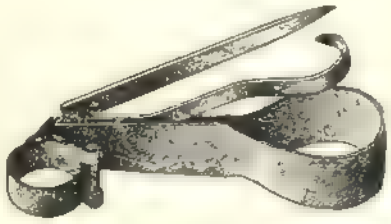
## Extras for Marlin, Model 1898 "Take Down."

| | EACH. |
|---|---|
| Checking on Grip and Forearm, Style "A" | $ 4 50 |
| Extra Length or Drop of Stock, to Order | 9 00 |
| Selected Walnut Stock and Forearm, Not Checkered | 9 00 |
| Extra Selected Walnut Stock and Forearm, not Checkered, Dull or Polished | 11 50 |
| Checking on Grip and Forearm, Styles C or D | 9 50 |
| Special Smokeless Steel Barrel, on Grade A Gun | 6 50 |
| Best Twist Barrel | 6 00 |
| Fine Three Blade Damascus Barrel | 13 50 |
| Best Four Blade Damascus Barrel | 18 00 |

# MINERS' CANDLESTICKS.

## MARSHALL.

Ready for Use.



Folded.

**No. 4**—Steel. Nickel-plated. Weight, 8 lbs.....Per dozen, $15 00

One dozen in box.

## CRESCENT.

**No. 1**—Length, 11 inches
Weight, 4 lbs.....Per dozen, $7.00

## FAVORITE.

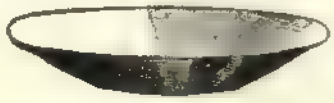
**No. 2**—Length, 10 inches.
Weight, 3½ lbs.....Per dozen, $7.50

## RUSSELL.

**No. 3**—Length, 12 inches
Weight, 4 lbs.....Per dozen, $9.00

One dozen in box.

# MINERS' GOLD PANS.



**No. 25**—Plain iron. Size, 1⅝x6¾ inches. Weight, 3 lbs..Per dozen, $ 5 00
**No. 41**— " " " 2½x16 " " 20 " " 6 00
**No. 42**—Polished iron. Size, 2½x16 inches. Weight, 20 lbs..... " 9.00
**No. 43**—Russia iron. Size, 2½x16 inches. Weight, 20 lbs..... " 18 00

# LAMPS.

## MINERS' HAT.

Nos. 5 and 10.

No. 15.

## BUNKER.

No. 20.

## JACKET.

Nos. 21 and 22.

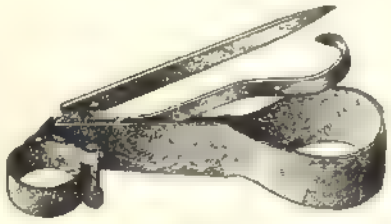
**No. 5**—Heavy tin. With single tube. Weight, 1½ lbs .....Per dozen, $ 2 25
**No. 10**— " " " double " " 1¾ " ..... " 3.75
**No. 15**—Galvanized iron. Without bail. Capacity, one half pint. Weight, 6 lbs ..... " 6 50
**No. 20**— " " With " " " " " 6½ " ..... " 6 50
**No. 21**—Steel. Copper plated. Diameter, 3½ inches. Capacity, one-half pint. Weight, 6 lbs.. " 10 00
**No. 22**— " " " 4½ " " one " " 8 " ..... " 12.00

Nos. 5 and 10, one dozen; Nos. 21 and 22, one-half dozen in box; balance, loose.

# MINERS' CANDLESTICKS.

## MARSHALL.

Ready for Use



Folded.

**No. 4**—Steel. Nickel-plated. Weight, 3 lbs.....Per dozen, $15 00

One dozen in box.

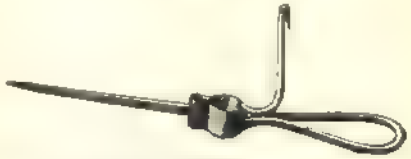
## CRESCENT.

**No. 1**—Length, 11 inches. Weight, 4 lbs.....Per dozen, $7 00

## FAVORITE.

**No. 2**—Length, 10 inches. Weight, 3½ lbs.....Per dozen, $7.50

## RUSSELL.



**No. 3**—Length, 12 inches. Weight, 4 lbs.....Per dozen, $9.00

One dozen in box.

# MINERS' GOLD PANS.

**No. 25**—Plain iron. Size, 1½x6¾ inches. Weight, 3 lbs..Per dozen, $ 5 00
**No. 41**— " " " 2½x16 " " 20 " " 6 00
**No. 42**—Polished iron. Size, 2½x16 inches. Weight, 20 lbs..... " 9 00
**No. 43**—Russia iron. Size, 2½x16 inches Weight, 20 lbs..... " 18.00

# LAMPS.

## MINERS' HAT.

Nos. 5 and 10.

## BUNKER.

No. 15.

No. 20.

## JACKET.

Nos. 21 and 22

**No. 5**—Heavy tin With single tube. Weight, 1½ lbs ..... Per dozen, $ 2 25
**No. 10**— " " " double " " 1¾ " ..... " 3 75
**No. 15**—Galvanized iron. Without bail Capacity, one half pint. Weight, 6 lbs ..... " 6 50
**No. 20**— " " With " " " " " 6½ " ..... " 6 50
**No. 21**—Steel Copper-plated. Diameter, 3½ inches. Capacity, one-half pint. Weight, 6 lbs..... " 10 00
**No. 22**— " " " 4½ " " one " " 8 " ..... " 12.00

Nos. 5 and 10, one dozen; Nos. 21 and 22, one-half dozen in box; balance, loose.

# REPEATING RIFLES.

## MAUSER.

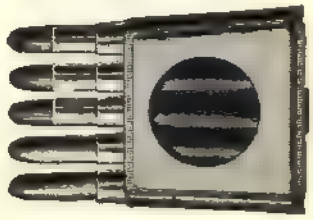
Military.

Caliber 7 m-m, range 2500 yards, flat trajectory 250 yards. Magazine holds 5 cartridges, put up in clips.

**No. 1000 M**—Military. 28-inch barrel. Weight, 8½ lbs.....Each, $30.00
**No. 1000 S**—Sporting. 23 " " " 7 " " 30 00

## MANNLICHER.

Sporting.



Clip of Cartridges.

Caliber 8 m-m or 315. Cartridges are made with full nickel manteled bullets for target use, or defense, and soft point, partly manteled, for game. Loaded with Walsrode smokeless powder. Magazine holds 5 cartridges, put up in clips.

**No. 1**—Rifle, extra finish, raised matted rib, half-octagon barrel, with sling swivel, hair trigger, checkered pistol grip, double reversible rear sight. 26-inch barrel. Weight, 7 lbs.....Each, $50.00
**No. 2**—Rifle, plain finish, octagon barrel, checkered pistol grip, hair trigger. 26-inch barrel. Weight, 7 lbs.. " 40.00
**No. 5**—Carbine, military finish, round barrel, with sling swivel. 17-inch barrel. Weight, 7½ lbs. " 30 00

## NEW REMINGTON-LEE.

Made for 6 m-m (236) U. S. Navy, 30-30 Sporting 30-40 U. S. Government, 7 m-m and 7.65 m-m.

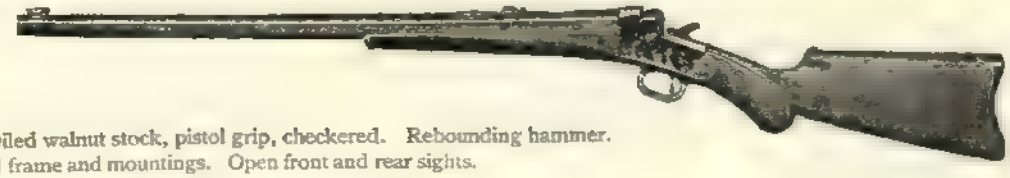
Sporting.

Round, special smokeless steel barrel. Specially selected fine walnut stock, half pistol grip, checkered. Open sporting front and rear sights. Magazine holds 5 cartridges, put up in clips.

**No. 1100 L**—26-inch barrel. Weight, 6¼ lbs.....Each, $30 00

# SINGLE SHOT RIFLES.

## No. 3 REMINGTON SPORTING AND TARGET.



Octagon barrel. Oiled walnut stock, pistol grip, checkered. Rebounding hammer.
Case-hardened frame and mountings. Open front and rear sights.

### 22, 25 and 32 Caliber.

22 Winchester, center fire. 25-20 Winchester, center fire. 32 Winchester, center fire. 32-40 Ballard and Marlin, center fire. 32-40 and 32-40 Remington, center fire.

**No. 322 B**—26-inch barrel, 8 to 8½ lbs ..... Each, $15.00
**No. 322 C**—28 " " 8 " 8½ " ..... " 15.00
**No. 322 D**—30 " " 8½ " 9 " ..... " 15.00

### 38 Caliber.

38 Winchester, center fire. 38-40 Remington, center fire. 38-55 Ballard and Marlin, center fire.

**No. 338 C**—28-inch barrel, 8½ to 9 lbs ..... Each, $15 00
**No. 338 D**—30 " " 8¾ " 9¼ " ..... " 15 00

### 40 Caliber.

40-60 Ballard and Marlin, center fire. 40-60 Winchester, center fire. 40-65 Remington, straight, center fire. 40-82 Winchester, center fire.

**No. 340 C**—28-inch barrel, 9 to 10 lbs..... Each, $15 00
**No. 340 D**—30 " " 9 " 10 " ..... " 15 00

### 45 Caliber.

45-70 Government, center fire. 45-90 Winchester, center fire.

**No. 345 C**—28-inch barrel, 9 to 10 lbs ..... Each, $15 00
**No. 345 D**—30 " " 9 " 10 " ..... " 15 00

## No. 4 REMINGTON NEW MODEL TAKE DOWN.

This rifle has automatic shell ejector, which throws the shell out of rifle when breech is opened. To detach barrel and forearm, throw lever forward on the right side and pull out.

**No. 4 A**—22 caliber, short and long, R. F., 22¼-in. barrels ..... $8 00
**No. 4 C**—25-10 caliber, Stevens, R. F., 22¼-in barrels ..... 8 00
**No. 4 E**—32 caliber, short and long, R. F., 24-in barrels ..... 8 00
Weight, 4¼ lbs.

Rifle Taken Apart.

## No. 6 REMINGTON NEW MODEL TAKE DOWN.

Specially designed to meet the demand for a light and reliable take down rifle, of standard make, at a moderate price. To detach the barrel loosen the thumbscrew, which is retained in the frame.

**No. 6**—Made only in 22 caliber long and short, 20-inch round barrel. Weight, about 3¼ lbs ..... Each, $5.00

## WINCHESTER. MODEL 1902.

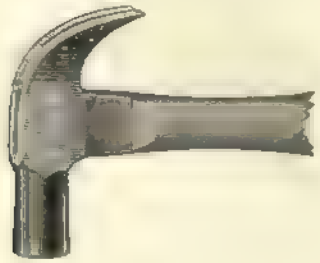
A serviceable, low-priced gun, designed to handle 22 short or 22 long rim fire cartridges. Bullet breech caps may also be used in it if desired. It is a take down and can be taken apart easily and quickly, the operation consisting simply of unscrewing the thumbscrew located underneath the forearm, which releases the barrel and action from the stock.

**No. 1902**—Standard and only style made, round barrel, 18 inches long. Plain trigger. Weight, about 2¾ lbs ..... Each, $5.00
We cannot fill orders for this gun calling for any variation whatsoever from the standard.

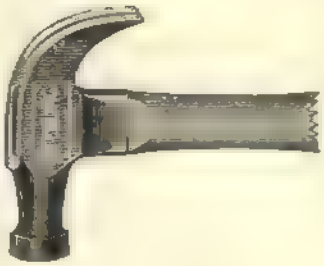
PACIFIC HARDWARE & STEEL COMPANY

# NAIL HAMMERS.

## STERLING.



Plain Face.



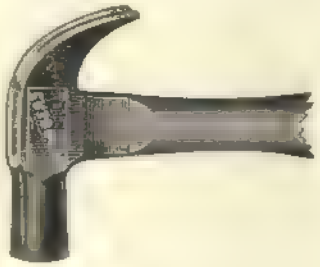
Bell Face.

Crucible Cast Steel, Polished.

| Nos. | 1 | 1½ | 2 | 3 |
|---|---|---|---|---|
| Weight, each, lbs. | 1¼ | 1 | ¾ | ½ |
| Per dozen | $9.00 | 8.50 | 8.00 | 7.50 |

| Nos. | 11 | 11½ | 12 | 13 |
|---|---|---|---|---|
| Weight, each, lbs. | 1 13/16 | 1 | ¾ | ½ |
| Per dozen | $9.00 | 8.50 | 8.00 | 7.50 |

## RODGERS'



Plain Face.

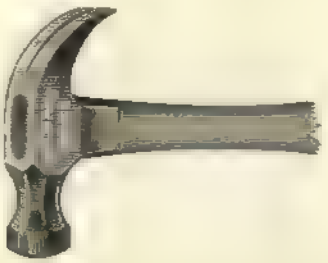
Bell Face

Cast Steel, Polished.

| No. | 1½ |
|---|---|
| Weight, each, lbs | 1 |
| Per dozen | $7.50 |

| Nos. | 11 | 11½ | 12 | 13 |
|---|---|---|---|---|
| Weight, each, lbs. | 1 13/16 | 1 | ¾ | ½ |
| Per dozen | $8.00 | 7.50 | 7.00 | 6.50 |

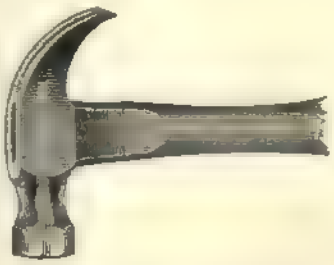
## ARTISAN'S CHOICE.



Extra Tool Steel. Nickel-plated Octagon Face

| No. | 21 |
|---|---|
| Size | 1½ |
| Weight, each, lbs | 1 13/16 |
| Per dozen | $13.50 |

## GERMANTOWN



Solid Crucible Steel Nickel-plated Octagon Face.

| Nos. | 43 | 44 |
|---|---|---|
| Size | ½ | 1 |
| Weight, each, lbs | 1 | 1¼ |
| Per dozen | $16.00 | 16.50 |

All above, one-half dozen in box. Weights do not include handles.

# NAIL HAMMERS.

## MAYDOLE'S.

Crucible Cast Steel.

Plain Face.

| Nos. | 1 | 1½ | 2 | 3 |
|---|---|---|---|---|
| Weight, each, lbs | 1¼ | 1 | 1 3/16 | 7/8 |
| Per dozen | $8.75 | 8.00 | 7 50 | 6.75 |

Bell Face.

| Nos. | 11 | 11½ | 12 | 13 |
|---|---|---|---|---|
| Weight, each, lbs | 1 3/16 | 1 | ¾ | 7/8 |
| Per dozen | $8.75 | 8.00 | 7.50 | 6.75 |

## MAYDOLE'S.

Crucible Cast Steel.

Bell Face. Straight Claw.

| Nos. | 711 | 711½ | 712 |
|---|---|---|---|
| Weight, each, lbs | 1⅛ | 1 | ¾ |
| Per dozen | $8.75 | 8.00 | 7.50 |

Brad. Plain Eye. Bell Face.

| Brad—No. | 34 |
|---|---|
| Weight, each, lbs | ⅞ |
| Per dozen | $5.00 |

## CHANTRELL'S.

Polished Steel. Bell Face.

| Nos. | 11 | 11½ | 12 | 13 |
|---|---|---|---|---|
| Weight, each, lbs | 1⅛ | 1 | ¾ | 7/8 |
| Per dozen | $7.50 | 7.00 | 6.50 | 6.00 |

## CAST IRON.

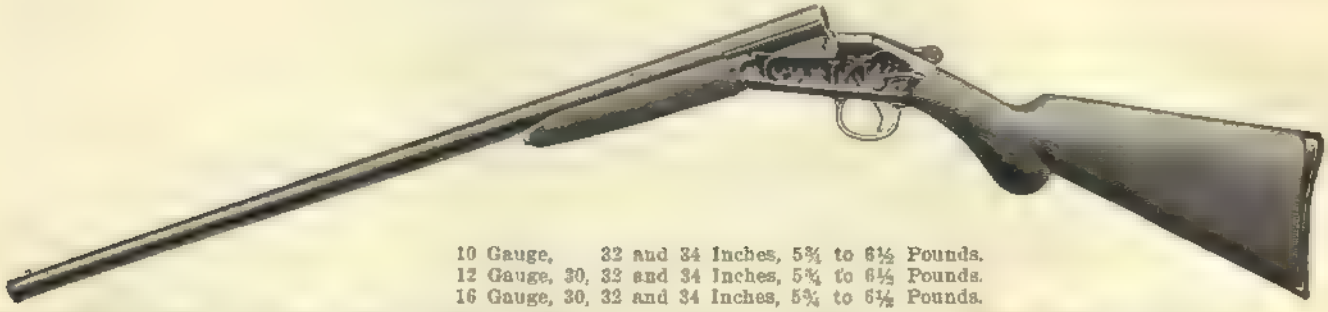
Steel Finish. Plain Face.

| Nos. | 10 | 580 |
|---|---|---|
| Size | 1⅜ | 2 |
| Weight, each, lbs | 1 | ¾ |
| Per dozen | $3 50 | 3 00 |

All above, one-half dozen in box. Weights do not include handles.

# Single Barrel Shot Guns.

## Remington, Model 1893.



10 Gauge, 32 and 34 Inches, 5¾ to 6½ Pounds.
12 Gauge, 30, 32 and 34 Inches, 5¾ to 6½ Pounds.
16 Gauge, 30, 32 and 34 Inches, 5¾ to 6½ Pounds.

**No. 3** Top Lever, Blue Steel Barrel, Rebounding Lock, Side Cocking Lever, Case-Hardened Frame, Rubber Butt Plate, Pistol Grip Stock, Choke Bored, 12, 16 and 20 Gauge . . . . . Each, $10 00
**No. 3**—10, 24 and 28 Gauge . . . . . " 11 00

For Component Parts see Page 1085

## Iver Johnson, 1901 Model.

**Iver Johnson**—12 Gauge, 30 in Barrel, Top Snap Rebounding Lock, Shell Extractor, Weight 6½ lbs. Each, $10 00

## Davenport Ejector.

Detachable Barrel, Top Snap Action, Blued Frame, Rebounding Lock with Direct Firing Pin, Oiled Walnut Pistol Grip Stock, Fine Blued Steel Barrel Bored from Solid Metal and Carefully Choke-Bored, Positive Extractor, Extra Long Lug Carefully Bolted, all Working Parts of Best Drop Forged Steel, Machine Fitted.

**Davenport Ejector**—12 Gauge, 30 in. Barrel, Weight 6½ lbs. . . . . Each, $8 00

# Winchester Repeating Rifles.

## Model 1886.

**Made for Sixteen Different Cartridges.**

38-56, 38-70, 40-65, 40-70, 40-70-260, .40-82, .45-70-405 Government, .45-70-500 Government, .45-70-330, .45-70-350, .45-90, .45-85-300, 45-85-350, 45-82-405, .50-100 and .50-110 Cartridges. **Made with Full or Half Magazine, in Take-Down and in Extra Light Weight Styles.**

**Sporting Rifle.**

A Rifle with a 26 inch barrel and full magazine, will carry nine 45-70-405, 40-65 or 38-56 cartridges, or eight of the other thirteen cartridges for which this Gun is made. Half Magazine Rifles will carry four 40-65 or 38-56 cartridges, or three of the other fourteen cartridges in the magazine and one in the barrel. Half Magazine Take Down Rifles will hold four cartridges in the magazine and one in the barrel. The standard length of barrel will be 26 inches, but regular style barrels can be furnished up to 30 inches in length. Guns of this model can be furnished with set triggers, if so ordered.

**Model 1886** -26 in. Octagon Barrel, Full or Half Magazine, Plain Trigger, Case Hardened Trimmings. Weight about 8¾ lbs. Each, $21 00

**Fancy Sporting Rifle.**

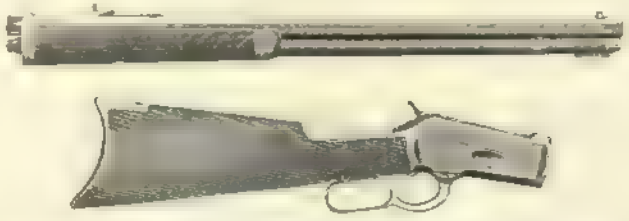
**Model 1886** -26 in. Octagon Barrel, Full or Half Magazine, Plain Trigger, Case Hardened Trimmings, Fancy Walnut Checked Pistol Grip Stock, Weight about 9 lbs. ..... Each, $38 00

**Carbine.**

**Model 1886** -22 in. Barrel, Full or Half Magazine, Plain Trigger, Case Hardened Trimmings, Weight about 8 lbs. . . Each, $19 00

Shotgun Butt Stocks, with ebonite metal or rubber butt plate, same price as Rifle Butt Stock. All of the above can be furnished with Half Magazines at same list price.

## "Take Down" Model 1886.



The Model 1886 Take Down Rifle will be made for the same cartridges and with the same variety of stocks as the regular style guns of this model, but only with 26 inch round or octagon, or half octagon barrels, and steel frames. It will be made with full or half magazine. Carbines or barrels, longer than 26 inches, cannot be furnished in Take Down style of Rifle.

**Model 1886**—"Take Down" Rifles, 26 in. Round, Octagon or Half Octagon Barrels. . . . . Each, $25 00

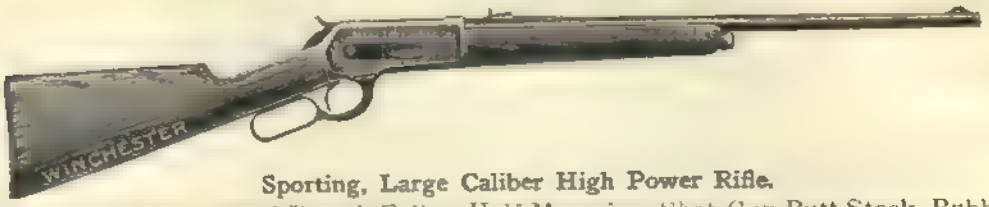
## Price List of Model 1886 Repeating Rifles, Full or Half Magazine.

| | | |
|---|---|---|
| Extra Light Weight Rifles, 22 in. Round, Nickel Steel Barrels, Weight about 6¾ lbs. | Each, | $25 00 |
| Extra Light Weight "Take Down," 22 in. Round Nickel Steel Barrel, Weight about 7¼ lbs. | " | 30 00 |
| Extra Length of Barrel | Per Inch, | 1 00 |
| Set Triggers | Extra, | 3 00 |

For Component Parts for Model 1886 Rifles, see Page 1088.

# Winchester Repeating Rifle.

## Model 1886, .33 Caliber "Take Down."




**Sporting, Large Caliber High Power Rifle.**

**Model 1886**—24 in. Round Nickel Steel Barrel, Full or Half Magazine, Shot Gun Butt Stock, Rubber Butt Plate, Weight about 7¾ lbs . . . . . Each, $30 00

**Model 1886** 24 in. Round Nickel Steel Barrel, Solid Frame . . . . . " 25 00

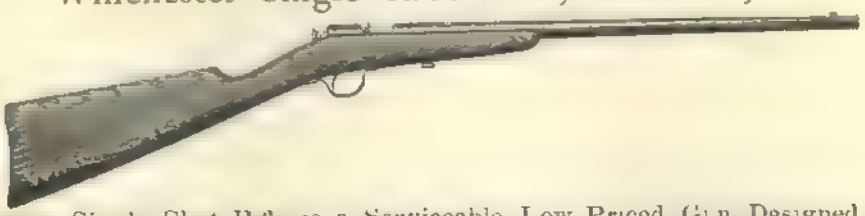
**This rifle is large enough and powerful enough to kill any big game.**

Half magazine will hold four cartridges in the magazine and one in the chamber. A Full Magazine Rifle will hold seven cartridges in the magazine and one in the chamber. Octagon or half octagon barrels or interchangeable barrels cannot be furnished for the 33 caliber rifle.

.33 Smokeless Cartridge . . . . . Per 1,000 $50 00

Soft Point Bullet, weight 200 grains, has special upsetting, or mushrooming qualities, owing to their high velocity.

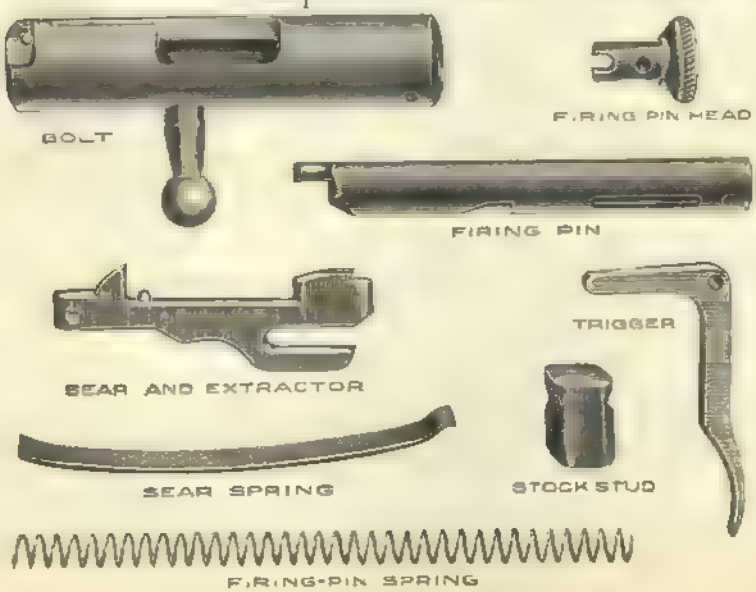
## Winchester Single Shot Rifle, Model 1900.



**Model 1900**—Winchester Single Shot Rifle is a Serviceable, Low Priced Gun, Designed to Handle 22 Short or .22 Long Rim Fire Cartridges, Bullet Breech Caps may also be Used in it if Desired. It is a "Take Down" and Can be Taken apart Easily and Quickly, the Operation Consisting Simply of Unscrewing the Thumbscrew Located Underneath the Forearm, which Releases the Barrel and Action from the Stock. Standard and Only Style Made, Round Barrel, 18 in. Long, Plain Trigger. Weight about 2¾ lbs . . . . . Each, $5 00

**We cannot fill orders for this gun calling for any variation whatsoever from the standard.**

## Component Parts of Model 1900 Single Shot Rifles.




| | | |
|---|---|---|
| **No. 1**—Bolt . . . . | Each. | $0 80 |
| **No. 2**—Firing Pin . . . . . | " | 75 |
| **No. 3**—Firing Pin Head . . . . . | " | 25 |
| **No. 4**—Firing Pin Spring . . . | " | 10 |
| **No. 5**—Sear and Extractor . . | " | 60 |
| **No. 6**—Sear Spring . . . . . | " | 10 |
| **No. 7**—Stock Stud . . . . . | " | 20 |
| **No. 8**—Trigger . . . . . | " | 25 |

# Fancy Finished Winchester Rifles.

The ornamenting of Winchester rifles affords excellent opportunities for displaying off fine engraving and artistic carving.

The prices named cover only the engraving of the metal parts of the gun, and the carving or inlaying of the wood. These prices are to be added to the list price of the rifle to ascertain the price of the completed gun. For instance: The standard model 1886 octagon barrel rifle, with plain stock, is listed at $21 00; to this add for pistol grip stock and forearm of fancy walnut $11 00; for hand carving stock and forearm, $60 00; for engraving and inlaying, $2 00 00, making total price of the 1886 gun shown on this page, $341 00. Prices for special engraving, carving etc., are subject to the same trade discounts as the gun it is put upon.

## An Elaborately Ornamented Model 1886 Winchester Rifle.

Style of Engraving, No. 1 . . . . . Each, $250 00
" " Carving, A . . . . . " 60 00

## An Inexpensively Engraved Model 1892 Winchester Rifle.

Style of Engraving, No. 6. . . . . Each, $25 00
" " Carving, H . . . . . " 5 00

## An Engraved Model 1894 Winchester Rifle.

Style of Engraving, No. 4. . . . . Each, $60 00
" " Carving, D . . . . . " 25 00

# Winchester Repeating Rifles.

## Model 1890 "Take Down."

**Made for .22 Short, .22 Long and .22 W. R. F. Cartridges.**

**Rifle Taken Apart.**

**Plain Finished, Model 1890.**

**Fancy Finished, Model 1890.**

Rifles of this Model will be Adapted to the regular .22 Short, .22 Long, and .22 Winchester Rim Fire Cartridges, the latter being especially designed for this Gun with Inside Lubricated Bullet. A Gun Chambered for the .22 Short Cartridge will handle that Cartridge only, .22 Long will handle the .22 Long Cartridge only, and so on.

This Model is made with 24 inch Octagon Barrels, Plain Triggers, and Straight Grip Rifle Stocks. This Gun can be fitted with Pistol Grip Stock, but longer barrels, shotgun butt stocks or set triggers cannot be furnished.

## Price List of Model 1890 .22 Caliber "Take Down" Rifles.

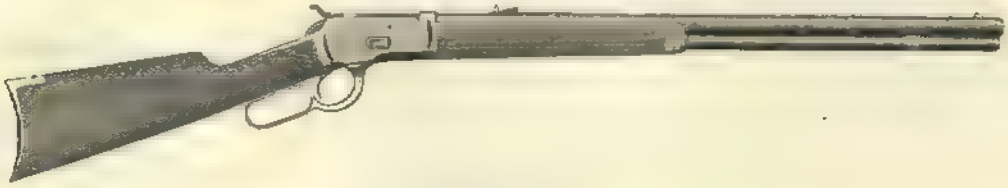
**Model 1890**—Octagon Barrel, 24 in. Long, Plain Trigger, Weight about 5¾ lbs. . . . . Each, $16 00
**Model 1890** " " 24 " " " " Fancy Walnut Checked Pistol Grip Stock, Weight about Six Pounds . . . . . Each, 31 00

For Component Parts for Model 1890 Rifles, see Page 1089

# Winchester Repeating Rifles.

## Model 1892.

**Made for .44, .38, .32 and .25-20 W. C. F. Cartridges.**



**Sporting Rifle.**

**Model 1892**—24 in. Octagon or Half Octagon Barrel, Full Magazine, Plain Trigger, Fourteen Shots, Weight about 7 lbs. ..... Each, $19 50
**Model 1892**—24 in. Round Barrel, Full Magazine, Plain Trigger, Fourteen Shots, Weight about 6¾ lbs. " 18 00

**Fancy Sporting Rifle.**

**Model 1892**—24 in. Octagon or Half Octagon Barrel, Full Magazine, Plain Trigger, Fancy Walnut Checked Pistol Grip Stock, Fourteen Shots, Weight about 7½ lbs ..... Each, $34 50
**Model 1892**—24 in. Round Barrel, Same Style, Fourteen Shots, Weight about 7¼ lbs. ..... 33 00

All of the above can be furnished with half magazines at same list price. Shotgun butt stocks, with either metal or rubber butt plate same price as rifle butt stocks

**Set Triggers, $3.00 List Extra. Barrels, $1.00 per inch Extra.**

## "Take Down," Model 1892.

**Rifle Taken Apart.**

**Model 1892**—24 in. Round, Octagon or Half Octagon Barrel, Made for the Same Cartridges as the Regular Style of this Model, Full or Half Magazine, Weight about 7¼ lbs., All Extras Same as on Other Winchester Repeating Rifles. ..... Each, $19 50
**Extra Barrels with Magazines Complete will be Furnished for** ..... 12 00

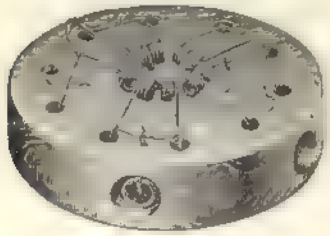
## Carbine, Model 1892.

**Model 1892**—20 in. Round Barrel, Full Magazine, Plain Trigger, 12 Shots, Weight about 5¾ lbs. Each, $17 50
**Model 1892**—20 " " " Half " " " 5 " " " 5½ " " 17 50

**For Component Parts for Model 1892 Rifles, see Page 1090.**

# MOUSE TRAPS.

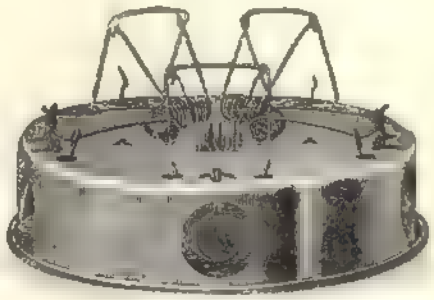
## WOOD.



| Nos. | 4 | 5 |
|---|---|---|
| Number of holes | 4 | 5 |
| Diameter, inch | 4¼ | 5 |
| Weight, lbs. | 2¾ | 3 |
| Per dozen | $1.00 | 1.25 |

One dozen in bundle.

## METALLIC.



| No. | 15 |
|---|---|
| Number of holes | 5 |
| Diameter, inch | 4½ |
| Weight, lbs. | 2 |
| Per dozen | $1.50 |

## SURE CATCH.

**No. 00**—Hardwood base. Single heavy wire spring. Size, 4x2 inches. Weight, 1 lb....Per dozen, $0.75

One dozen in box

## ELI.

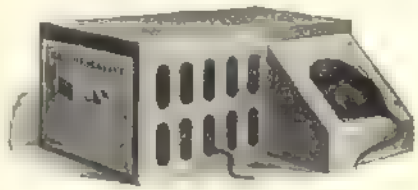
**No. 10**—Hardwood base. Double heavy wire spring. Size, 3⅝x1¾ inches. Weight 1 lb. Per dozen, $1.00

## OUT O'SIGHT.

**No. 1**—Hardwood base. Single heavy wire spring. Size, 8¼x3½ inches. Weight 1 lb. Per dozen, $1.25

One dozen in box.

## DELUSION.



**No. 11**—Wood box. Japanned tin slides. Self-setting. Size, 6x6 inches. Weight 6 lbs. Per dozen, $3.00

Six dozen in box.

## WHEEL.

**No. 2** Wood bottom. Round steel wire wheel and frame. Size, 9 inches. Weight 5½ lbs. Per dozen, $3.00

One-half dozen in package.

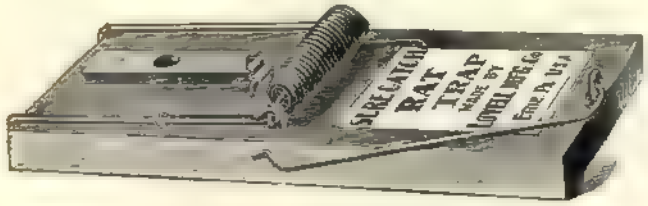
## FRENCH.

**No. 29**—French pattern. Wire. Size, 9x5x4 inches. Weight, 5½ lbs.....Per dozen, $6.00

One-half dozen in bundle

# RAT TRAPS.

## SURE CATCH.




Hardwood Base. Single Heavy Wire Spring

| | |
|---|---|
| **No.** | **600** |
| Size, inch | 7x3½ |
| Weight, lbs. | 6 |
| Per dozen | $1 50 |

One dozen in box.

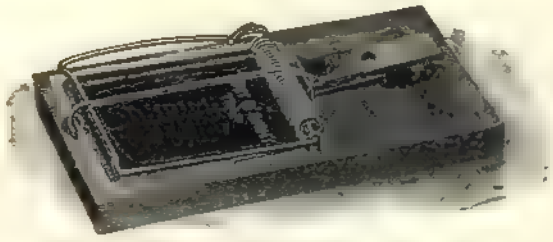
## ELI.

Hardwood Base. Double Wire Spring

| | |
|---|---|
| **No.** | **100** |
| Size, inch | 6½x3¼ |
| Weight, lbs. | 1½ |
| Per dozen | $2 00 |

One dozen in box.

## OUT O'SIGHT.



Hardwood Base. Single Heavy Wire Spring.

| | |
|---|---|
| **No.** | **101** |
| Size, inch | 7x3½ |
| Weight, lbs. | 6 |
| Per dozen | $2 50 |

One dozen in box.

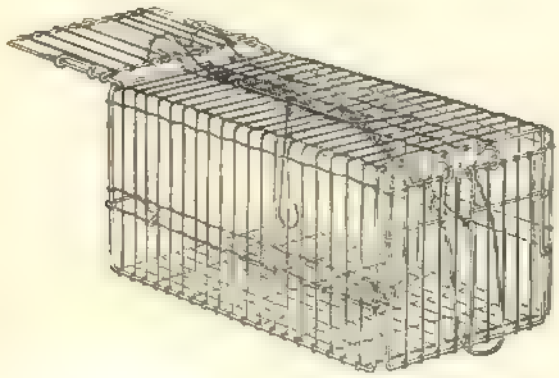
## GRIP.

Hardwood Heavy Wire Spring Easily Set.

| | |
|---|---|
| **No.** | **200** |
| Size, inch | 4¾x3½ |
| Weight, lbs. | 11 |
| Per dozen | $3 00 |

One dozen in box.

## SQUARE.



All Wire Drop Lock.

| | |
|---|---|
| **No.** | **8** |
| Size, inch | 11x8 |
| Weight, lbs. | 12 |
| Per dozen | $6 00 |

One-half dozen in crate

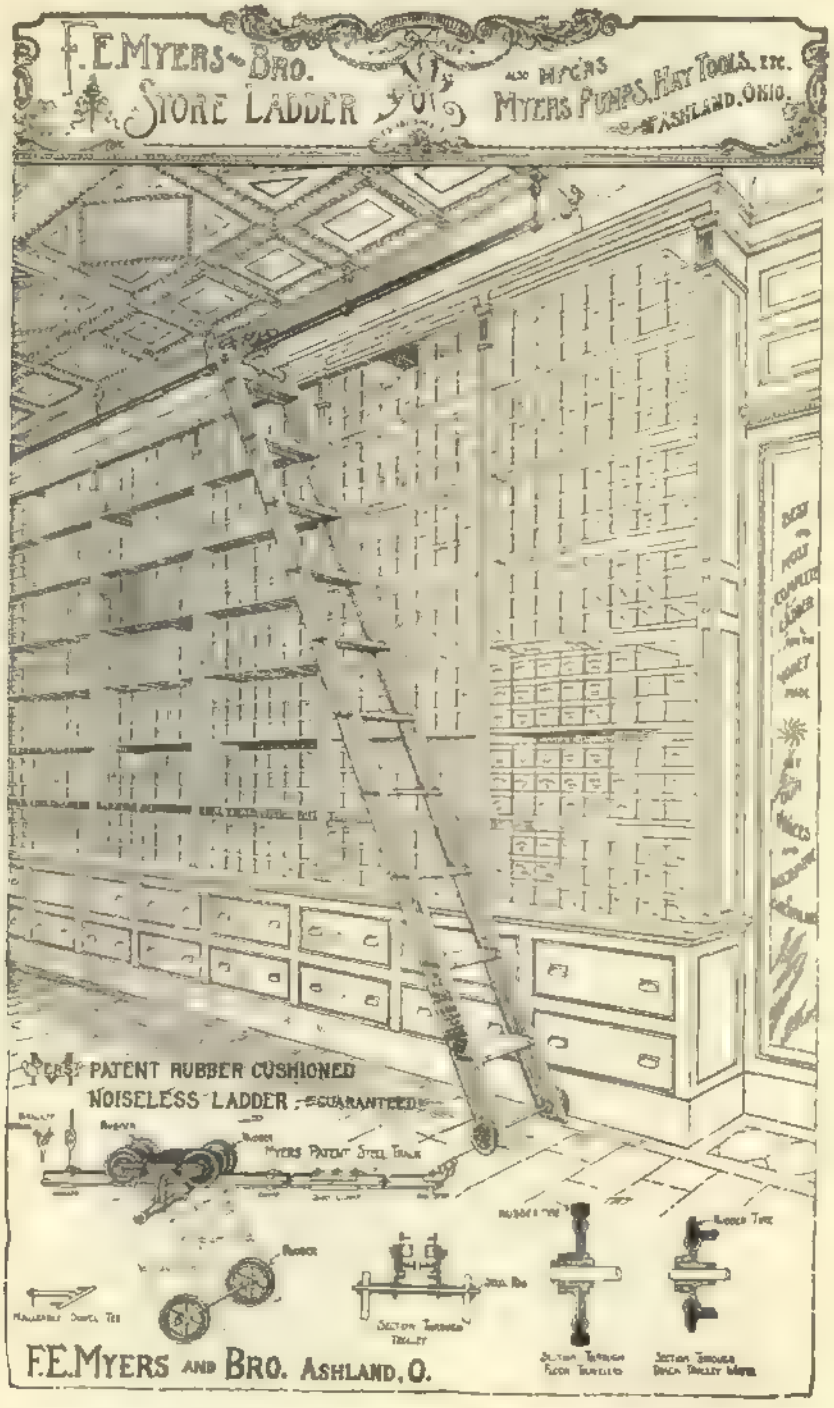
## FRENCH.

All Wire

| | |
|---|---|
| **No.** | **30** |
| Size, inch | 16x9x7 |
| Weight, lbs. | 24 |
| Per dozen | $12 00 |

One-half dozen in bundle

# Myers' Cushion Tire Noiseless Store Ladder.



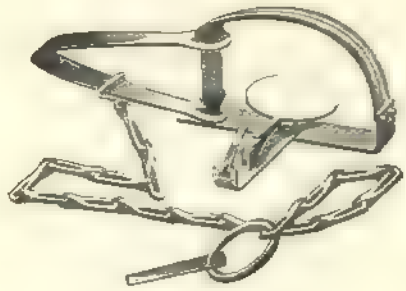

**Myers'** Trolley Rolling Shelf Ladder, Complete with Trolley and Rubber Tire Floor Wheels. . . Each, $16 00
**Myers'** Steel Track with Hanging Hooks.....Per Foot, 30

In ordering, give height of ceiling from the floor and length of track To ascertain the length of the ladder required, subtract from height of the room 11 inches and multiply the remainder by one and one-tenth.

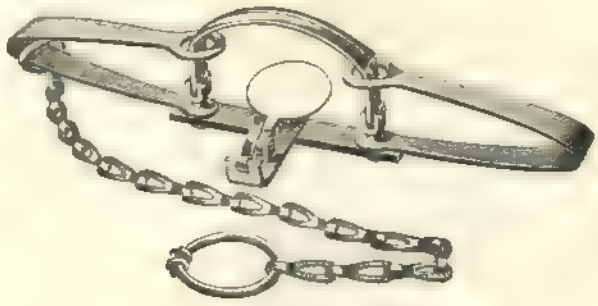
For Shipment Only From Factory.

# STEEL GAME TRAPS.

## CRESCENT



Nos. 0, 1 and 1½.



Nos. 2, 3 and 4.

With Chain. Fully Warranted.

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **No. 0** | —Rat. | One spring. | Spread of jaws, | 3½ | inches. | Weight, | 6 | lbs | Per dozen, | $ | 4.25 |
| **No. 1** | Muskrat. | One spring. | " | " | " | 4 | " | " | 6½ " | " | 5.00 |
| **No. 1½** | —Mink. | " | " | " | " | 4⅞ | " | " | 12 " | " | 7.50 |
| **No. 2** | —Fox. | Two springs. | " | " | " | 4⅞ | " | " | 12 " | " | 10 50 |
| **No. 3** | —Otter. | " | " | " | " | 5½ | " | " | 14 " | " | 14.00 |
| **No. 4** | —Beaver. | " | " | " | " | 6½ | " | " | 19 " | " | 16.50 |

## NEWHOUSE.

With Chain

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **No. 1** | —Muskrat. | One spring. | Spread of jaws, | 4 | inches. | Weight, | 9 | lbs | Per dozen, | $ | 5.00 |
| **No. 1½** | —Mink. | " | " | " | " | 4⅞ | " | | 13 " | " | 7 50 |
| **No. 2** | —Fox. | Two springs. | " | " | " | 4⅞ | " | | 18 " | | 10 50 |
| **No. 3** | —Otter. | " | " | " | " | 5½ | " | | 27 " | | 14 00 |
| **No. 4** | —Beaver. | " | " | " | " | 6½ | | | 50 | " | 16 50 |

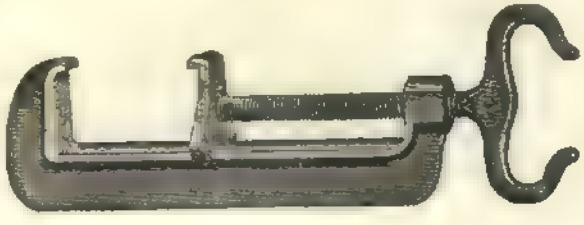
# STEEL BEAR TRAPS.

## NEWHOUSE.

With Chain.

| | | | |
|---|---|---|---|
| **No. 15**—Spread of jaws, 11¾ inches. With teeth. Suitable for common black bear. Weight, 204 lbs. | Per dozen, | $120.00 |
| **No. 6**—Spread of jaws, 16 inches. With teeth. Suitable for grizzly bear, etc. Weight, 504 lbs. | " | 240.00 |

# TRAP CLAMPS.

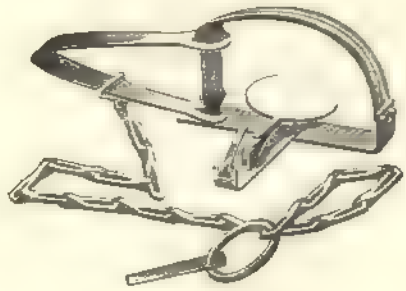


For Setting Traps

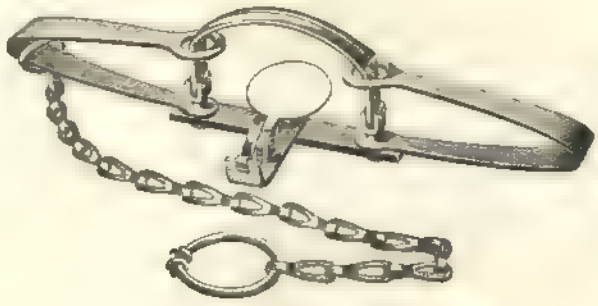
| | | |
|---|---|---|
| **No. 4**—For No. 4 trap or similar. Weight, 13 lbs. | Per dozen, | $ 2 50 |
| **No. 5**—For No. 15 trap. Weight, 15 lbs. | " | 6 50 |
| **No. 6**— " " 20 " " " 20 " | " | 10 00 |

# STEEL GAME TRAPS.

## CRESCENT



Nos. 0, 1 and 1½.



Nos. 2, 3 and 4.

With Chain. Fully Warranted.

| | | | | | | |
|---|---|---|---|---|---|---|
| No. 0 | —Rat. One spring | Spread of jaws, 3½ inches. | Weight, 6 lbs | | Per dozen, | $ 4.25 |
| No. 1 | Muskrat. One spring. | " 4 " | " 6½ " | | " | 5.00 |
| No. 1½ | —Mink | " 4½ " | " 12 " | | " | 7.50 |
| No. 2 | —Fox. Two springs | " 4½ " | " 12 " | | " | 10.50 |
| No. 3 | —Otter " " | " 5½ " | " 14 " | | " | 14.00 |
| No. 4 | —Beaver " " | " 6½ " | " 16 " | | " | 16.50 |

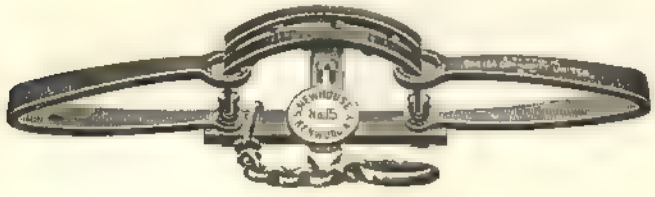
## NEWHOUSE

With Chain

| | | | | | |
|---|---|---|---|---|---|
| No. 1 | —Muskrat. One spring. | Spread of jaws, 4 inches. | Weight, 9 lbs | Per dozen, | $ 5.00 |
| No. 1½ | —Mink | " 4½ " | " 13 " | " | 7.50 |
| No. 2 | —Fox. Two springs | " 4½ " | " 18 " | | 10 50 |
| No. 3 | —Otter " " | " 5½ " | " 27 " | | 14 00 |
| No. 4 | —Beaver " " | " 6½ " | " 30 " | " | 16 50 |

# STEEL BEAR TRAPS.

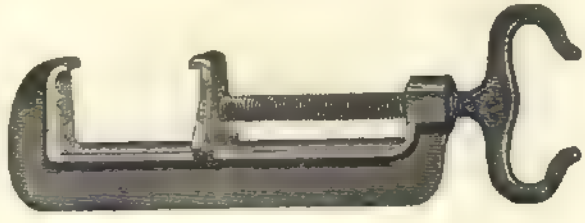
## NEWHOUSE.



With Chain.

| | | | |
|---|---|---|---|
| No. 15— | Spread of jaws, 11¾ inches. With teeth. Suitable for common black bear. Weight, 204 lbs. | Per dozen, | $120.00 |
| No. 6— | Spread of jaws, 16 inches. With teeth. Suitable for grizzly bear, etc. Weight, 504 lbs. | " | 240.00 |

# TRAP CLAMPS.



For Setting Traps.

| | | | |
|---|---|---|---|
| No. 4— | For No. 4 trap or smaller. Weight, 12 lbs. | Per dozen, | $ 2 50 |
| No. 5— | For No. 15 trap. Weight, 15 lbs. | | 6 50 |
| No. 6— | " 20 " " 30 | | 10 00 |

PACIFIC HARDWARE & STEEL COMPANY

# Razor Strops.

## Gibford, Double Swing.

Each Strop put up in Manila Paper Bags printed as above

No. 216

**No 216**—Double Swing, 1¾ x 18 in. Double Loop Wire Swivel, Nickeled, Loose Leather Handle, Pigskin Top Stitched with Silk, Rough Strop Red, Fancy Scroll Finish, Finish Strop Black. ..... Per Dozen, $7 50

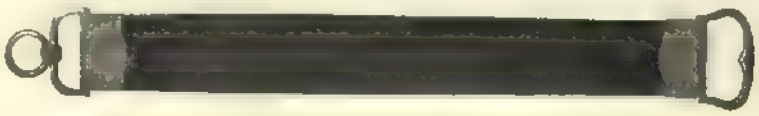
No. 225

**No 225** Double Swing, 2 x 19 in., Single Loop Wire Swivel, Nickeled, Pigskin Top, Horsehide Handle, Stitched with Silk, Rough Strop Red, Fancy Scroll Finish, Finish Strop Black ..... Per Dozen, $10 00

No. 229

**No 229** Double Swing, 2 x 20 in. Double Loop Wire Swivel, Nickeled, Genuine Alligator Handle and Top, Stitched with Silk, Rough Strop Red, Fancy Scroll Finish, Finish Strop Black ..... Per Dozen, $12 00

## The U. S. Cavalry Strop.



No. 24

**No. 242**—Double Swing, 2 x 22 in., Heavy English Swivel and Handle, Nickeled, Pigskin Top and Bottom, Stitched with Silk, Rough Strop Red, Fancy Scroll Finish, Finish Strop Black ..... Per Dozen, $16 00

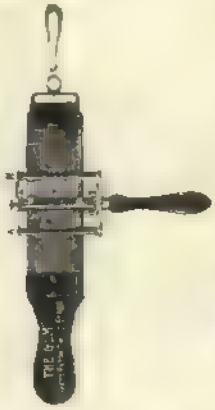
All above half dozen in a box

# Safety Razors.

## New Gem.

No. 6

Stropping Machine.

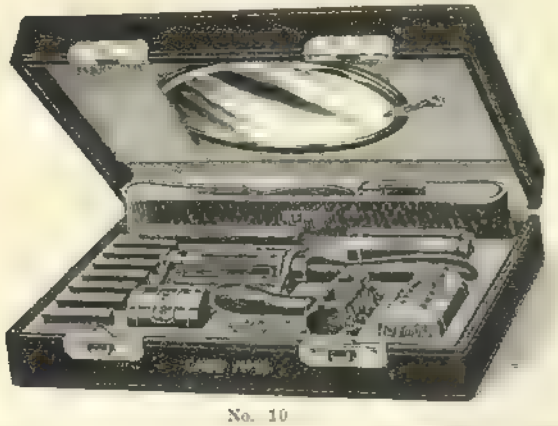


No. 11

**Case No. 6** Consists of One New Gem Safety Frame, with Two Blades of Fine Silver Steel, Box of Shaving Soap, Collapsible Brush, Comb and Cosmetic, in Satin Lined Morocco Case, Size, $4\frac{3}{4} \times 4\frac{1}{4} \cdot 1\frac{3}{4}$ in ..... Each, $8 00

**Case No. 11**—Two Blades. Consists of One New Gem Safety Frame, with Two Extra Fine Blades, One Stropping Machine, and Combination Swing Strop, in Satin Lined Morocco Case, Size, $5\frac{1}{2} \times 5 \times 2$ in ..... Each, 9 00

**Case No. 11**—Seven Blades, Consists of One New Gem Safety Frame with Seven Extra Fine Blades, One Stropping Machine and Combination Swing Strop, in Satin Lined Morocco Case, Size, $5 \cdot 4\frac{1}{2} \cdot 1\frac{3}{4}$ in ..... Each, 17 00



No. 10

No. 12

**Case No. 10**—Consists of One New Gem Safety Frame with Seven Highly Tempered Blades, One Stropping Machine, Strop, Comb, Cosmetic, Soap, Collapsible Shaving Brush, Honing Handle, and a Beveled Edge Shaving Mirror, Size, $9\frac{3}{4} \times 6\frac{3}{8} \cdot 2\frac{3}{8}$ in ..... Each, $25 00

**Case No. 12**—Consists of One New Gem Safety Frame, Two Blades, Brush, Stropping Machine, and Swing Strop, in Satin Lined Morocco Case, Size, $8 \times 6\frac{1}{2} \times 2\frac{1}{2}$ ..... Each, 12 00

**Extra Blades**—Packed in Tin Box ..... Per Dozen, 18 00

**Stropping Machines** ..... " " 24 00

# The New Rogers' Saw.

## Scroll Saw.

The latest improvements on this saw are Pratt's Rubber Positive Blower, a new Clamp for holding the Saw Blades, and a Roller inserted in the table back of the saw which makes it run perfectly true.

The entire framework is made from iron, painted and Japanned black, and ornamented with red and gilt stripes.

The Arbors, etc., are made of steel, and are carefully gauged and fitted to their bearings.

The Arms and Pitman are of the best selected ash.

All parts are made to interchange.

Each machine provided with a Dust Blower, Jointer, Stretcher Rod. Clamps have a Hinged Jaw.

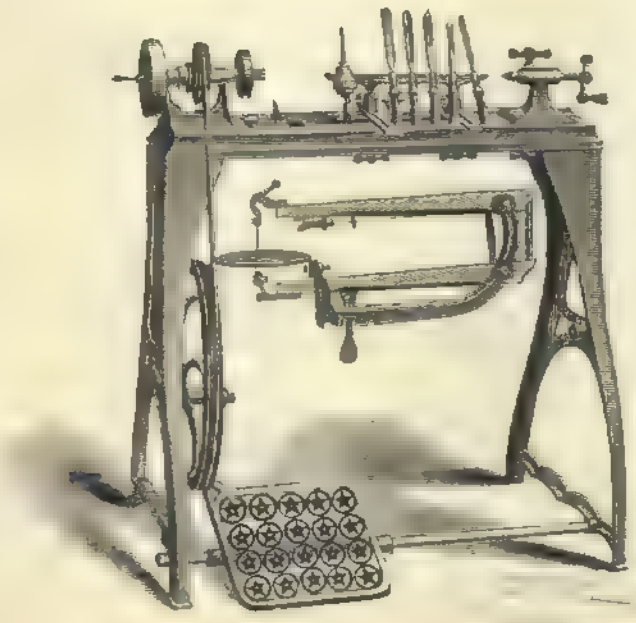
With each machine we give 12 Saw Blades, Wrench, Sheet of Designs, and 3 Drill Points.

The Balance Wheel is 4½ in. in diameter, with a Spoke Center and a rim of Solid Emery.

**No. 2**.....Each, $6 00

The Saw Alone Weighs 25 lbs. Saw and Box Together, 42 lbs.

# Goodell Lathe and Saw Attachments.



This lathe is patterned almost exactly after the latest improved lathes now used in the best machine shops and pattern makers' rooms. The large driving wheel has two grooves, of varying depths, on its face, to give a change of speed, as the belt runs from it to the cone pulley on the lathe head. The lathe head is provided with a 2 in. face plate, a spur center, a screw center for turning cups, and also with a very nice drill chuck to hold from 1-32 to ¼ in. round twist drills for drilling wood or iron. It also has on the outer side of the pulley a 4½x⅞ in. solid emery wheel and a drill spindle, with set screw, to hold drill points for wood drilling. The tail stock has a screw feed center, which is secured at any point desired by a clamping arrangement like that on the modern engine lathes. It is also provided with a long and short tool rest, 5 turning tools, wrench, drill points, etc. Swing of lathe, 5 in.; length of bed, 24 in.; distance between centers, 13½ in.

The scroll sawing attachment, as seen in the cut, is secured to the lathe bed by one bolt, and can be put on or off at pleasure

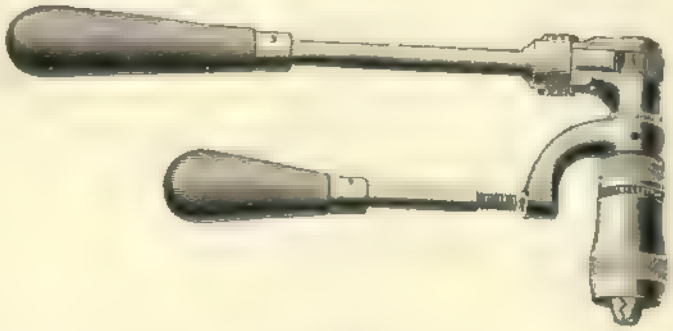
This lathe is thoroughly built and highly finished, the planed and polished parts being nickel plated.

| | |
|---|---|
| Lathe and Lathe Tools | $12 00 |
| Scroll Saw Attachment | 2 50 |
| Circular Saw Attachment | 1 25 |

Weight, 56 lbs.

In Ordering Please State Whether the Saw Attachments are Wanted

# Corner Ratchet Borer.



No 140

**No. 140**—Nickel Plated, Imitation Rosewood Handles..... Per Dozen, $18 00

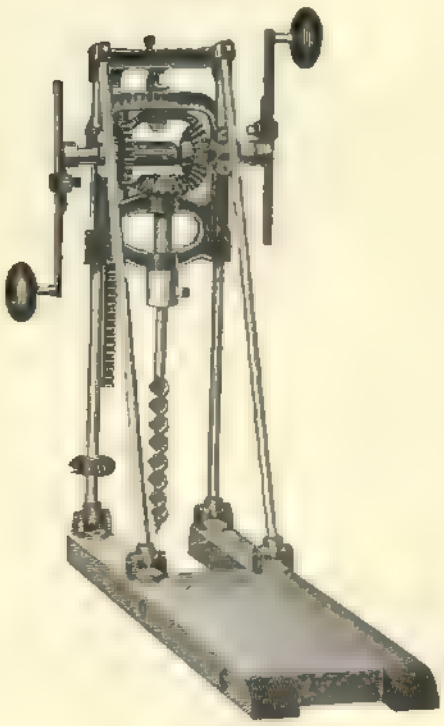
This Tool is designed to be used in corners between joists and in other unusual places where a Brace cannot be conveniently employed. The long handle works the tool while the short one is designed for steadying it. Especially adapted for Electricians and Plumbers.

One in a Box.

# Boring Machines.

## Angular.

Millers Falls.

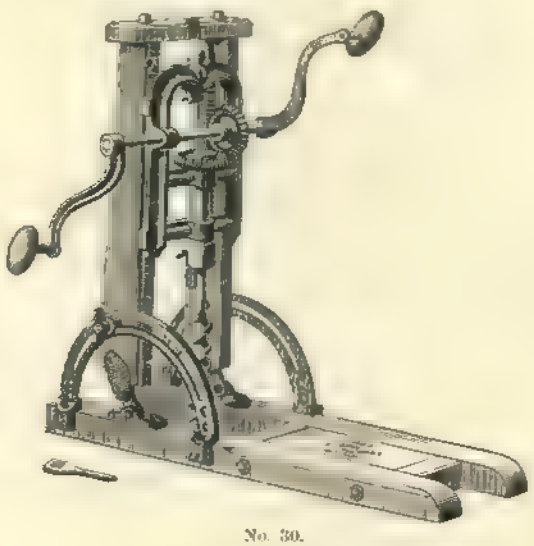


Millers Falls Angular.

**No. 20**—Without Augers, Wt. Ea., 37 lbs., Each, $ 7 50
**No. 25**—With Augers, 1, 1½ and 2 in... " 12 00

Adjustable Cranks. The depth of hole to be bored is regulated by a Stop. Frame is made of half-inch Round Steel Rods. A perfect machine.

Ladd's.



No. 30.

Ladd's Angular.

**No. 30**—Without Augers, Weight Each, 32 lbs., . . . Each, $ 6 20
**No. 35**—With Augers, 1, 1½ and 2 in ... " 10 75

Two in a Crate.

# SINGLE BIT AXES.

## RED RIDGE.

RED RIDGE

Michigan.

Red Finish.

| | | |
|---|---|---|
| Unhandled | Per dozen, | $ 9.00 |
| Handled with Rodgers' handle | " | 12 00 |

## STAR.

Bronzed

| | | |
|---|---|---|
| Unhandled | Per dozen, | $ 8.50 |
| Handled with Rodgers' handles | " | 10.50 |

Above brands carried in the following weights:
3, 3¼, 3½, 4, 4¼, 4½, 4¾, 5, 6 lbs.
5 and 6 lb. advance list $1.50 per dozen.

## HUNT'S.

OHIO PATTERN.

Black Finish.

| | | |
|---|---|---|
| Unhandled, 3 to 5 lbs | Per dozen, | $ 9.00 |
| " 5 " 6 " | " | 10 50 |
| " 6 " 7 " | " | 12 00 |
| Handled with Rodgers' handles, 3 to 5 lbs | " | 12.00 |
| " " Sterling " 3 " 5 " | " | 13 50 |
| " " Fremont " 3 " 5 " | " | 15.00 |

STAR.

California Yankee.

## ELECTRIC.

ELECTRIC.

California Yankee.

Silver Bronze Finish. Patent Ground.

| | | |
|---|---|---|
| Unhandled | Per dozen, | $12 00 |
| Handled with Sterling handles | " | 15 00 |

Weights: 3, 3¼, 3½, 4, 4¼, 4½ lbs.

## ROBERT MANN'S.

Bronzed.

| | | |
|---|---|---|
| Unhandled | Per dozen, | $12.00 |
| Handled with Sterling handles | " | 15.00 |

Weights: 3, 3¼, 3½, 4, 4¼, 4½, 4¾, 5 lbs.

5 lb. advance list $1.50 per dozen.

One dozen in case.

ROBERT MANN'S.

California Yankee

# SINGLE BIT AXES.

PACIFIC.

Improved Yankee.

## PACIFIC.

Hand Made. Natural Finish. Scratched and Tested Temper

| | | |
|---|---|---|
| Unhandled | Per dozen, | $12 50 |
| Handled with Sterling handles | | 16 00 |
| " Fremont " | | 18 00 |

## PHOENIX.

Hand Made. Natural Finish.

| | | |
|---|---|---|
| Unhandled | Per dozen, | $12 00 |
| Handled with Sterling handles | | 15 00 |
| " Fremont " | | 17 00 |

## RUSSELL.

Hand Made. Natural Finish

| | | |
|---|---|---|
| Unhandled | Per dozen, | $12 00 |
| Handled with Sterling handles | | 15 00 |
| " Fremont " | | 17 00 |

Above brands carried in the following weights:

3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5 lbs.

5 lb. advance list $1 50 per dozen.

PHOENIX

Improved Yankee.

CRESCENT.

Michigan.

## CRESCENT.

Hand Made. Fire Blue Finish. Tested Temper.

| | | |
|---|---|---|
| Unhandled | Per dozen, | $12 00 |
| Handled with Sterling handles | " | 15 00 |
| " " Fremont " | | 17 00 |

Weights: 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5 lbs.

5 lb. advance list $1.50 per dozen.

## RODGERS'.

Black Finish

| | | |
|---|---|---|
| Unhandled | Per dozen, | $ 9 00 |
| Handled with Sterling handles | " | 12 00 |

Weights: 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5½, 6, 6½, 7 lbs.

5 and 5½ lb. advance list $1.50 per dozen.

6 to 7 lb. advance list $2.50 per dozen.

One dozen in case.

RODGERS'.

California Yankee.

# SINGLE BIT AXES.

PACIFIC.

Improved Yankee.

## PACIFIC.

Hand Made. Natural Finish. Scratched and Tested Temper

| | | |
|---|---|---|
| Unhandled | Per dozen, | $12 50 |
| Handled with Sterling handles | " | 16 00 |
| " Fremont " | " | 18 00 |

## PHOENIX.

Hand Made. Natural Finish.

| | | |
|---|---|---|
| Unhandled. | Per dozen | $12 00 |
| Handled with Sterling handles | " | 15 00 |
| " Fremont " | " | 17 00 |

## RUSSELL.

Hand Made. Natural Finish

| | | |
|---|---|---|
| Unhandled | Per dozen, | $12 00 |
| Handled with Sterling handles | " | 15 00 |
| " " Fremont " | " | 17 00 |

Above brands carried in the following weights:

3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5 lbs

5 lb. advance list $1 50 per dozen.

PHOENIX

Improved Yankee.

CRESCENT.

Michigan.

## CRESCENT.

Hand Made. Fire Blue Finish. Tested Temper.

| | | |
|---|---|---|
| Unhandled | Per dozen, | $12.00 |
| Handled with Sterling handles | " | 15 00 |
| " " Fremont " | " | 17 00 |

Weights: 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5 lbs.

5 lb. advance list $1 50 per dozen.

## RODGERS'.

Black Finish

| | | |
|---|---|---|
| Unhandled | Per dozen, | $ 9 00 |
| Handled with Sterling handles | " | 12 00 |

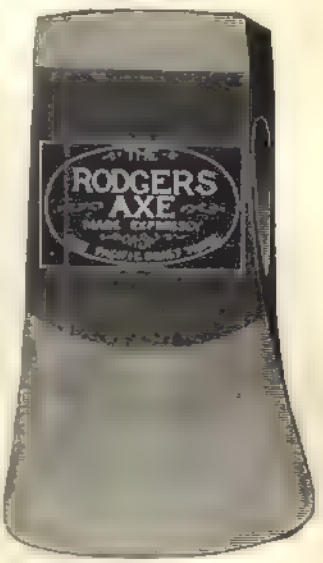
Weights: 3, 3¼, 3½, 3¾, 4, 4¼, 4½, 4¾, 5, 5½, 6, 6½, 7 lbs.

5 and 5½ lb. advance list $1.50 per dozen.

6 to 7 lb. advance list $2.50 per dozen.

One dozen in case.

RODGERS'.




California Yankee.

# SINGLE BIT AXES.

## RED RIDGE.

RED RIDGE

Michigan.

Red Finish.

| | | |
|---|---|---|
| Unhandled | Per dozen, | $ 9.00 |
| Handled with Rodgers' handle | " | 12.00 |

## STAR.

Bronzed

| | | |
|---|---|---|
| Unhandled | Per dozen, | $ 8.50 |
| Handled wuh Rodgers' handles | " | 10.50 |

Above brands carried in the following weights:
3, 3¼, 3½, 4, 4¼, 4½, 4¾, 5, 6 lbs.
5 and 6 lb. advance list $1.50 per dozen.

## HUNT'S.

OHIO PATTERN.

Black Finish.

| | | | | | |
|---|---|---|---|---|---|
| Unhandled, 3 to 5 lbs | | | | Per dozen, | $ 9.00 |
| " | 5 " 6 " | | | " | 10 50 |
| " | 6 " 7 " | | | " | 12 00 |
| Handled with Rodgers' handles, 3 to 5 lbs | | | | " | 12.00 |
| " " | Sterling | " | 3 " 5 " | " | 13.50 |
| " " | Fremont | " | 3 " 5 " | " | 15.00 |

STAR.

California Yankee.

## ELECTRIC.

ELECTRIC.

California Yankee.

Silver Bronze Finish. Patent Ground.

| | | |
|---|---|---|
| Unhandled | Per dozen, | $12 00 |
| Handled with Sterling handles | " | 15 00 |

Weights: 3, 3¼, 3½, 4, 4¼, 4½ lbs.

## ROBERT MANN'S.

ROBERT MANN'S.

California Yankee

Bronzed.

| | | |
|---|---|---|
| Unhandled | Per dozen, | $12.00 |
| Handled with Sterling handles | " | 15 00 |

Weights: 3, 3¼, 3½, 4, 4¼, 4½, 4¾, 5 lbs.

5 lb. advance list $1.50 per dozen.

One dozen in case.

PACIFIC HARDWARE & STEEL COMPANY

# SINGLE BIT AXES.

PHOENIX.

Barking.

## PHOENIX.

BARKING PATTERN

Hand Made Natural Finish.

| | | |
|---|---|---|
| Unhandled | Per dozen, | $12 00 |
| Handled with Sterling handles | " | 15 00 |

## ROBERT MANN'S.

BARKING PATTERN

Bronzed

| | | |
|---|---|---|
| Unhandled | Per dozen, | $12.00 |
| Handled with Sterling handles | " | 15 00 |

## PHOENIX.

FALLING PATTERN.

Hand Made. Natural Finish.

| | | |
|---|---|---|
| Unhandled | Per dozen, | $12.00 |
| Handled with Sterling handles | " | 15.00 |

## ROBERT MANN'S.

FALLING PATTERN.

Bronzed.

| | | |
|---|---|---|
| Unhandled | Per dozen, | $12.00 |
| Handled with Sterling handles | " | 15 00 |

Above brands carried in the following weights:
3, 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

One dozen in case.

PHOENIX.

Falling.

# DOUBLE BITTED AXES.

PACIFIC.

California Reversible.

## PACIFIC.

CALIFORNIA REVERSIBLE PATTERN.

Hand Made. Natural Finish. Scratched and Tested Temper.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

| | |
|---|---|
| Per dozen | $18.00 |

## PHOENIX.

CALIFORNIA REVERSIBLE PATTERN

Hand Made. Natural Finish.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

| | |
|---|---|
| Per dozen | $18.00 |

One dozen in case.

PHOENIX.

California Reversible.

# DOUBLE BITTED AXES.

CRESCENT.

California Reversible.

## CRESCENT.

CALIFORNIA REVERSIBLE PATTERN

Hand Made. Fire Blue Finish. Tested Temper.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18 00

## ROBERT MANN'S.

CALIFORNIA REVERSIBLE PATTERN

Bronzed.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½, 5 lbs.

Per dozen ..... $18.00

5 lb. advance list $1.50 per dozen.

## PACIFIC.

SWAMPING PATTERN.

Hand Made. Natural Finish. Scratched and Tested Temper.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18.00

## PHOENIX.

SWAMPING PATTERN.

Hand Made. Natural Finish.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18 00

PACIFIC.

Swamping.

PHOENIX.

Swamping.

## CRESCENT.

SWAMPING PATTERN.

Hand Made. Fire Blue Finish. Tested Temper.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18 00

## ROBERT MANN'S.

SWAMPING PATTERN

Bronzed.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18 00

CRESCENT.

Swamping.

One dozen in case.

PACIFIC HARDWARE & STEEL COMPANY

# DOUBLE BITTED AXES.

PHOENIX.

Young's Pattern Falling.

## PHOENIX.

YOUNG'S PATTERN FALLING

Hand Made. Natural Finish.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18 00

## CRESCENT.

YOUNG'S PATTERN FALLING

Hand Made. Fire Blue Finish. Tested Temper.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18.00

CRESCENT.

Young's Pattern Falling

## PHOENIX.

PEELING PATTERN.

Hand Made. Natural Finish

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18.00

PHOENIX.

Peeling.

## ROBERT MANN'S.

PEELING PATTERN.

Bronzed

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18 00

PACIFIC.

Fireman's Axe.

# FIREMAN'S AXE.

## PACIFIC.

Red Finish. Polished Bit and Pick. Handled with Fremont Handles.

Weight, each, 3 to 4 lbs.....Per dozen, $30.00

All above, one dozen in case.

# DOUBLE BITTED AXES.

PACIFIC.

Redwood.

## PACIFIC.

REDWOOD PATTERN

Hand Made. Natural Finish. Scratched and Tested Temper.

Weights 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18.00

## PHOENIX.

REDWOOD PATTERN.

Hand Made. Natural Finish.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18.00

## ROBERT MANN'S.

REDWOOD PATTERN.

Bronzed.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18.00

PHOENIX.

Redwood.

## CRESCENT.

REDWOOD PATTERN.

Hand Made Fire Blue Finish. Tested Temper.

Weights 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18.00

CRESCENT.

Redwood.

## PACIFIC.

YOUNGS' PATTERN FALLING.

Hand Made. Natural Finish. Scratched and Tested Temper.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18.00

## ROBERT MANN'S.

YOUNGS' PATTERN FALLING.

Bronzed.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18 00

One dozen in case.

PACIFIC.

Young's Pattern Falling.

# DOUBLE BITTED AXES.

PACIFIC.

Redwood.

## PACIFIC.

REDWOOD PATTERN

Hand Made. Natural Finish. Scratched and Tested Temper.

Weights 3¼, 3½, 3¾, 4, 4¼, 4½ lbs

Per dozen ..... $18.00

## PHOENIX.

REDWOOD PATTERN.

Hand Made. Natural Finish.

Weights 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18.00

## ROBERT MANN'S.

REDWOOD PATTERN.

Bronzed.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18.00

PHOENIX.

Redwood.

## CRESCENT.

REDWOOD PATTERN.

Hand Made. Fire Blue Finish. Tested Temper.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18.00

CRESCENT.

Redwood.

## PACIFIC.

YOUNGS' PATTERN FALLING.

Hand Made. Natural Finish. Scratched and Tested Temper.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18.00

## ROBERT MANN'S.

YOUNGS' PATTERN FALLING.

Bronzed.

Weights 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18.00

PACIFIC.

Young's Pattern Falling.

One dozen in case.

# DOUBLE BITTED AXES.

PHOENIX.

Young's Pattern Falling.

## PHOENIX.

YOUNG'S PATTERN FALLING.

Hand Made. Natural Finish.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18.00

## CRESCENT.

YOUNG'S PATTERN FALLING

Hand Made. Fire Blue Finish. Tested Temper.

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18.00

CRESCENT.

Young's Pattern Falling

## PHOENIX.

PEELING PATTERN.

Hand Made. Natural Finish

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18.00

PHOENIX.

Peeling.

## ROBERT MANN'S.

PEELING PATTERN.

Bronzed

Weights: 3¼, 3½, 3¾, 4, 4¼, 4½ lbs.

Per dozen ..... $18 00

PACIFIC.

Fireman's Axe.

# FIREMAN'S AXE.

## PACIFIC.

Red Finish. Polished Bit and Pick. Handled with Fremont Handles.

Weight, each, 3 to 4 lbs..... ....Per dozen, $30.00

All above, one dozen in case.

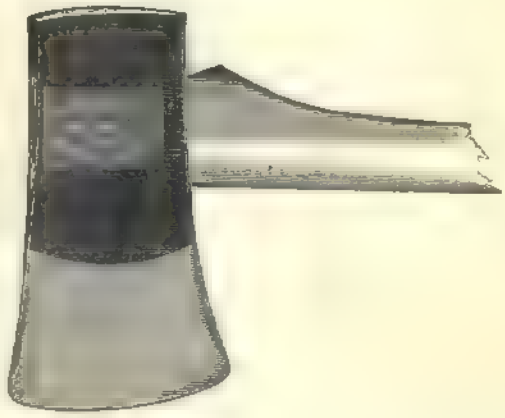
# BOYS' AXES

## PHOENIX.

Natural Finish. 28-inch All White Handles.

Weight, each, 2¼ lbs..... .....Per dozen, $14.00

## RODGERS'.

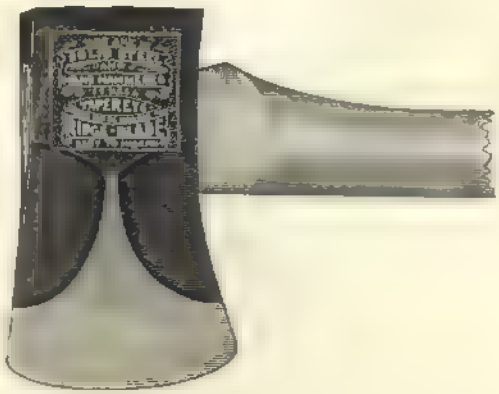


Black Finish. 28-inch All White Handles

Weight, each, 2¼ lbs.....Per dozen, $11.00

# BOYS' AXES.

## KELLY'S.



Black Finish. 28-inch Extra Turned Handles.

Weight, each, 2¼ lbs.. Per dozen, $12.00

## AMERICANAX.

Blue Finish. 28-inch All White Handles.

Weight, each, 2¼ lbs.. ....Per dozen, $10.00

# FREIGHTERS' AXES.

## RODGERS'.

Black Finish. 32-inch All White Handles.

Weight, each, 3 lbs.....Per dozen, $10 00

All above, one-half dozen in case

# BROAD AXES.

## PACIFIC.

Special California Pattern.

Black Finish

**Pacific**—Width of cut, 13 to 14 inches. Weight, each, 7 to 7½ lbs. ..... Per dozen, $36 00

One-half dozen in case

# SHIP AXES.

## HUNT'S.

Black Finish.

## WHITE'S.

Black Finish.

## HORTON'S.

Blue Finish.

**Hunt's** —Width of blade, 6½ to 7 inches. Weight, each, 5 to 6 lbs. ..... Per dozen, $30 00
**White's** — " " 6½ to 7 " " " " 5 to 6 lbs. ..... 36 00
**Horton's**— " " 6½ to 7 " " " " 5 to 6 lbs. ..... 54 00

One-half dozen in case

PACIFIC HARDWARE & STEEL COMPANY

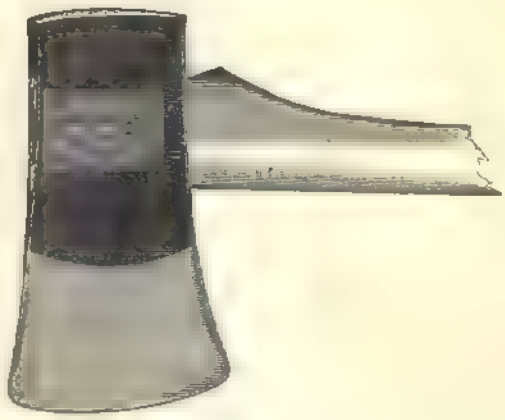
# BOYS' AXES

## PHOENIX.

Natural Finish. 28-inch All White Handles.

Weight, each, 2¼ lbs.....Per dozen, $14.00

## RODGERS'.

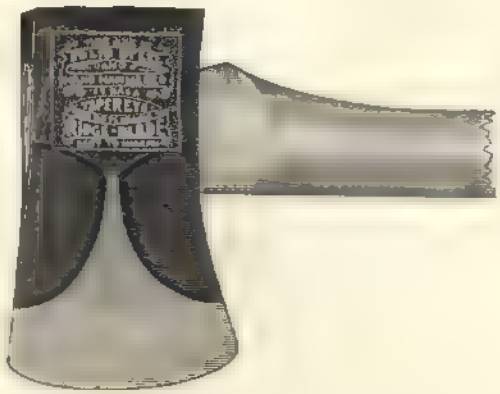


Black Finish. 28-inch All White Handles.

Weight, each, 2¼ lbs.....Per dozen, $11.00

# BOYS' AXES.

## KELLY'S.



Black Finish. 28-inch Extra Turned Handles.

Weight, each, 2¼ lbs.....Per dozen, $12.00

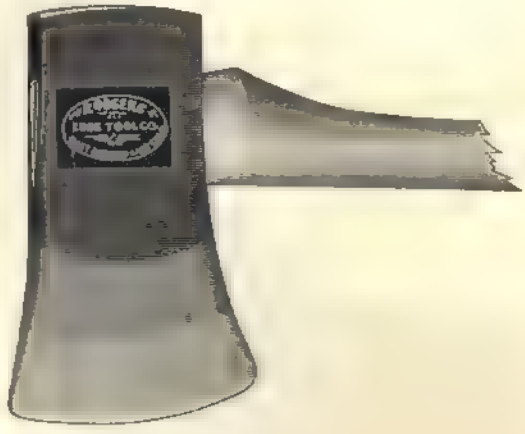
## AMERICANAX.

Blue Finish. 28-inch All White Handles.

Weight, each, 2¼ lbs.....Per dozen, $10.00

# FREIGHTERS' AXES.

## RODGERS'.



Black Finish. 32-inch All White Handles.

Weight, each, 3 lbs.....Per dozen, $10.00

All above, one-half dozen in case

# BROAD AXES.

## PACIFIC.

Special California Pattern.

Black Finish

**Pacific**—Width of cut, 13 to 14 inches. Weight, each, 7 to 7½ lbs. ..... Per dozen, $36 00

One-half dozen in case

# SHIP AXES.

## HUNT'S.

Black Finish.

## WHITE'S.

Black Finish.

## HORTON'S.

Blue Finish.

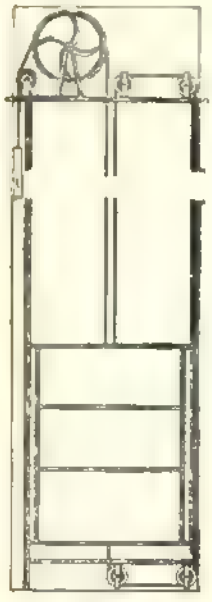
**Hunt's** —Width of blade, 6½ to 7 inches. Weight, each, 5 to 6 lbs ..... Per dozen, $30 00
**White's** — " " 6½ to 7 " " " 5 to 6 lbs ..... " 36.00
**Horton's**— " " 6½ to 7 " " " 5 to 6 lbs ..... 54 60

One-half dozen in case.

PACIFIC HARDWARE & STEEL COMPANY

# DUMB WAITER FIXTURES.

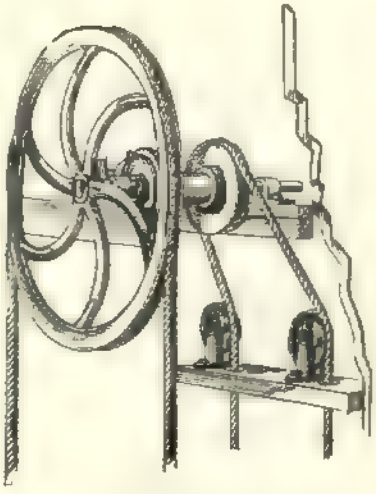
## NATIONAL.



No. 1

## PARAGON.

SELF-RETAINING AUTOMATIC BRAKE



No. 2.

## NEW YORK.

No. 3.

**No. 1**—Pulleys and standards necessary to complete the outfit, rope, weight or car not included. Large wheel, 12 inches. Standards, 4 inches. Small wheels, 3 inches. Adapted to all places where 50 lbs. or less are to be carried. Weight, 34 lbs..... Per set, $10 00

**No. 2**—Pulleys and standards necessary to complete the outfit; rope, weight or car not included. Is so constructed that it will hold the car stationary at any point without use of brake or rope clamp. It works easily and with perfect safety, for the moment the operator ceases pulling the hand rope, either raising or lowering, the clutch will hold the car in place. For use in well holes not more than 28 inches square. Hoist wheel, 16 inches diameter. Lifting capacity, 100 lbs. Weight, 43 lbs..... " 21 00

**No. 3**—Pulleys and standards necessary to complete the outfit; rope, weight or car not included. The simplest, most durable and economical waiter ever made. Lifts easily 50 to 75 pounds. Made in one size only, and will fit any size opening under 24 inches square. Weight, 68 lbs..... " 20 00

All above, one set in case.

# JOIST HANGERS.

With 2-inch Arms.

| Size of Joist, Inch. | Size of Stock, Inch. | Weight, Lbs. | Each. | Size of Joist, Inch. | Size of Stock Inch. | Weight Lbs. | Each |
|---|---|---|---|---|---|---|---|
| 2 x 6 | ⅛ x2 | 2½ | $0 20 | 3x 6 | ¼x2¼ | .. | $0 35 |
| 2 x 8 | ⅛ x2 | 2¾ | 20 | 3x 8 | ¼x2¼ | 3¾ | 35 |
| 2 x10 | ⅛ x2 | 3 | 30 | 3x10 | ¼x2¼ | 3½ | 40 |
| 2 x12 | ⅛ x2 | 3½ | 30 | 3x12 | ¼x2¼ | 4 | 40 |
| 2 x14 | ⅛ x2¼ | 4½ | 30 | 3x14 | ¼x2½ | 5¼ | 45 |
| 2 x16 | ⅛ x2½ | 5¼ | 35 | 3x16 | ¼x2½ | 5¾ | 45 |
| 2½x 6 | ⅛ x2¼ | 3 | 35 | 4x 6 | ¼x2½ | 3½ | 40 |
| 2½x 8 | ⅛ x2¼ | 3¼ | 35 | 4x 8 | ¼x2½ | 4 | 40 |
| 2½x10 | ⅛ x2¼ | 3½ | 35 | 4x10 | ¼x2½ | 4½ | 40 |
| 2½x12 | ⅛ x2¼ | 4 | 40 | 4x12 | ¼x2½ | 5¾ | 60 |
| 2½x14 | ⅛ x2½ | 4½ | 45 | 4x14 | ¼x2½ | 6¼ | 60 |
| 2½x16 | ⅛ x2½ | 6 | 45 | 4x16 | ¼x2½ | 7½ | 60 |

For joists set at angles, use hangers one inch wider; thus: for 2-inch joist, use 3-inch hangers.

# COMPONENT PARTS OF AIR RIFLES.

## COLUMBIAN.

Interchangeable Parts.

| | | | | | |
|---|---|---|---|---|---|
| **No. 1**—Frame, right side, enameled | Each, | $0.75 | **No. 9**—Piston Head | Each, | $0 15 |
| **No. 2**—Frame, left " " | " | .75 | **No. 10**—Barrel, brass | " | .35 |
| **No. 3**—Magazine, nickel, | " | .40 | **No. 11**—Air Chamber | " | .35 |
| **No. 4**—Finger Lever and Stirrup, enameled | " | .35 | **No. 12**—Sleeve | " | .15 |
| **No. 5**—Trigger, enamel | " | .10 | **No. 13**—Mainspring | " | .15 |
| **No. 6**—Lever Spring | " | .15 | **No. 14**—Trigger Spring | " | .10 |
| **No. 7**—Butt | " | 15 | **No. 15**—Stock | " | 50 |
| **No. 8**—Piston Rod and Rivet | " | .15 | **No. 16**—All screws | " | .05 |

## TWENTIETH CENTURY DAISY.

Shoots Darts or BB Shot.

| | | | | | |
|---|---|---|---|---|---|
| **No. 1**—Plunger | Each, | $0 20 | **No. 8**—Plate Screw | Each, | $0.10 |
| **No. 2**—Mainspring | | .20 | **No. 9**—Right Hand Plate | " | 20 |
| **No. 3**—Cast Guide | " | .20 | **No. 10**—Trigger Guard | " | 20 |
| **No. 4**—V Link | " | 10 | **No. 11**—Inside Barrel | " | 30 |
| **No. 5**—Lock | | 10 | **No. 12**—Rear Sight | " | 10 |
| **No. 6**—Trigger | " | .10 | **No. 13**—Plate Spring | " | .20 |
| **No. 7**—Left Hand Plate | " | .20 | **No. 14**—Wood Stock | " | .30 |

Darts.....Per dozen, $0.60

## CHICAGO.

| | | | | | |
|---|---|---|---|---|---|
| **No. 1**—Mainspring | Each, | $0 20 | **No. 5**—Trigger | Each, | $0.10 |
| **No. 2**—Hinge | " | .10 | **No. 6**—Rubber Washer | " | .10 |
| **No. 3**—Piston | " | .10 | **No. 7**—Side Strap | " | .10 |
| **No. 4**—Piston Rod | " | .10 | **No. 8**—Ram-rod | " | .10 |

**No. 9**—Barrel, complete.....$0 80

## KING.

| | | | | | |
|---|---|---|---|---|---|
| **No. 1**—Repeating Cap | Each, | $0 60 | **No. 5**—Trigger Spring | Each, | $0.10 |
| **No. 2**—Wood Stock | " | .80 | **No. 6**—Draw Link | " | .10 |
| **No. 3**—Barrel | " | .80 | **No. 7**—Washers | " | .10 |
| **No. 4**—Trigger | " | .10 | **No. 8**—Screws | " | .10 |

**No. 9**—Sight..... Each, $0.10

# BRACKET SETS.

**No. 1**—Pleasure and Profit Set. Frame rough nickeled, with japanned handle. Box same size and same contents as No. 2. Weight, 11¾ lbs.....Per dozen, $10 00

**No. 2**—These sets are packed in paper boxes, and embrace a spring steel saw frame, polished and nickel-plated, 6x12 inches, having patent clamps for holding the saw blades, and rosewood handle; 3 sheets of designs, embracing a great variety of fancy and useful articles; 12 saw blades, 1 awl, 1 sheet of impression paper. Weight, 14 lbs.... ..Per dozen $15.00

One-twelfth dozen in box

# THE NEW ROGERS' SAW.

The latest improvements on this saw are Pratt's rubber positive blower, a new clamp for holding the saw blades, and a roller inserted in the table back of the saw which makes it run perfectly true

The entire framework is made from iron, painted and japanned black, and ornamented with red and gilt stripes.

The arbors, etc., are made of steel, and are carefully gauged and fitted to their bearings.

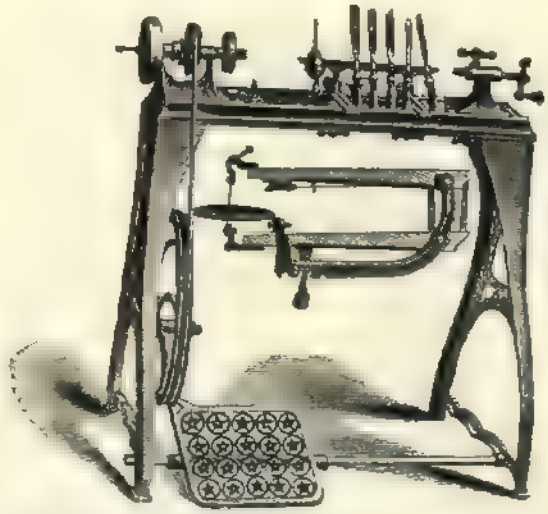
The arms and pitman are of the best selected ash.

All parts are made to interchange.

With each machine we give 12 saw blades, wrench, sheet of designs and 3 drill points

**No. 2**—Weight, 25 lbs.....Each, $6.00

# GOODELL LATHE AND SAW ATTACHMENTS.



This lathe is patterned almost exactly after the latest improved lathes now used in the best machine shops and pattern makers' rooms. The large driving wheel has two grooves, of varying depths, on its face, to give a change of speed, as the belt runs from it to the cone pulley on the lathe head. The lathe head is provided with a 2-inch face plate, a spur center, a screw center for turning cups, and also a very nice drill chuck to hold from 1/16 to ¼-inch round twist drills for drilling wood or iron. It also has on the outer side of the pulley a 4½x⅞-inch solid emery wheel and a drill spindle, with set screw, to hold drill points for wood drilling. The tail stock has a screw feed center, which is secured at any point desired by a clamping arrangement like that on the modern engine lathes. It is also provided with a long and short tool rest, 5 turning tools, wrench, drill points, etc. Swing of lathe, 5 inches; length of bed, 24 inches; distance between centers, 13½ inches.

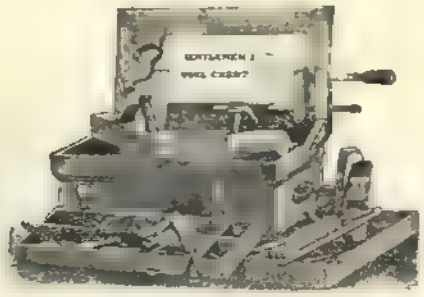
The scroll sawing attachment, as seen in the cut, is secured to the lathe bed by one bolt, and can be put on or off at pleasure.

This lathe is thoroughly built and highly finished, polished parts being nickel-plated.

**No. 10**—Lathe and lathe tools. Weight, 56 lbs..... $12 00
**No. 11**—With scroll saw attachment, " 64 " ..... 14 50
**No. 12**— " circular " " " 64 ..... 13 25

☞Orders should state if the saw attachments are wanted.

# CHESTS AND TOOLS.



These chests are made from the best selections of spruce, with sliding tray, lock and key and cane bottom handles.

**No. 1**—Size, 16 inches long, 8 inches wide and 6 inches deep.....Complete, $5.00

Contains tools, as follows:

1 Hand Saw.
1 Hammer.
1 Hatchet.
1 Mallet.
2 Chisels and Handles.
1 Rule.
1 Lead Pencil.
1 Wood Hand Screw.
1 Chalk Line Reel.
1 Screw Driver.
1 Marking Gauge.
1 Nail Gimlet.
1 Pair Pliers.
1 File and Handle.
1 Try Square.
1 Plane.
1 Handled Brad Awl.
1 Oiler.

**No. 2**—Size, 16 inches long, 8 inches wide and 6 inches deep.....Complete, $7.50

Contains tools, as follows:

1 Hand Saw.
1 Hammer.
1 Hatchet.
1 Mallet.
2 Chisels and Handles.
1 Rule.
1 Lead Pencil.
1 Wood Hand Screw.
1 Chalk Line Reel.
1 Screw Driver.
1 Marking Gauge.
1 Nail Gimlet.
1 Pair Pliers.
1 File and Handle.
1 Try Square.
1 Plane.
1 Handled Brad Awl.
1 Oiler.
1 Nail Set.
1 Brace.
2 Auger Bits.
1 Oil Stone.
1 Pocket Level.
1 Compass Saw.

**No. 3**—Size, 19 inches long, 9 inches wide and 7 inches deep.....Complete, $10.00

Contains tools, as follows:

1 Hand Saw.
1 Hammer.
1 Hatchet.
1 Mallet.
3 Chisels and Handles.
1 Rule.
1 Lead Pencil.
1 Wood Hand Screw.
1 Chalk Line Reel.
1 Screw Driver.
1 Marking Gauge.
1 Nail Gimlet.
1 Pair Pliers.
1 File and Handle.
1 Try Square.
1 Plane.
1 Handled Brad Awl.
1 Oiler.
1 Nail Set.
1 Brace.
2 Auger Bits.
1 Oil Stone.
1 Pocket Level.
1 Compass Saw.
1 Carpenters' Pincers.
1 Cabinet File.
2 Gimlet Bits.
1 Screw Driver Bit.
1 Pair Compasses.

**No. 4**—Size, 19 inches long, 9 inches wide and 7 inches deep.....Complete, $12.50

Contains tools, as follows:

1 Hand Saw.
1 Hammer.
1 Hatchet.
1 Mallet.
4 Chisels and Handles.
1 Rule.
1 Lead Pencil.
1 Wood Hand Screw.
1 Chalk Line Reel.
1 Screw Driver.
1 Marking Gauge.
1 Nail Gimlet.
1 Pair Pliers.
1 File and Handle.
1 Try Square.
1 Plane.
1 Handled Brad Awl.
1 Nail Set.
1 Brace.
2 Auger Bits.
1 Oil Stone.
1 Pocket Level.
1 Compass Saw.
1 Carpenters' Pincers.
1 Cabinet File.
2 Gimlet Bits.
1 Screw Driver Bit.
1 Pair Compasses.
1 Draw Knife.
1 Jack Plane.
1 Bench Screw.

**No. 5**—Size, 23 inches long, 10½ inches wide and 8½ inches deep.....Complete, $15.00

Contains tools, as follows:

1 Hand Saw.
1 Bell Face Claw Hammer.
1 Hatchet.
1 Mallet.
4 Chisels and Handles.
1 Rule.
1 Lead Pencil.
1 Wood Hand Screw.
1 Chalk Line Reel and Awl.
1 Screw Driver.
1 Marking Gauge.
1 Nail Gimlet.
1 Pair Pliers.
1 File and Handle.
1 Try Square.
1 Plane.
1 Handled Brad Awl.
1 Oiler.
1 Nail Set.
1 Brace.
2 Auger Bits.
1 Oil Stone.
1 Pocket Level.
1 Compass Saw.
1 Carpenters' Pincers.
1 Cabinet File.
2 Gimlet Bits.
1 Screw Driver Bit.
1 Pair Compasses.
1 Draw Knife.
1 Jack Plane.
1 Bench Screw.
1 Carpenters' Chalk.

**No. 6**—Size, 23 inches long, 10½ inches wide and 8½ inches deep.....Complete, $20.00

Contains tools, as follows:

1 Hand Saw.
1 Bell Face Claw Hammer.
1 Hatchet.
1 Mallet.
4 Chisels and Handles.
1 Rule.
1 Lead Pencil.
1 Wood Hand Screw.
1 Chalk Line Reel and Awl.
1 Screw Driver.
1 Marking Gauge.
1 Nail Gimlet.
1 Pair Pliers.
1 File and Handle.
1 Try Square.
1 Plane.
1 Handled Brad Awl.
1 Oiler.
1 Nail Set.
1 Brace.
6 Auger Bits.
1 Oil Stone.
1 Pocket Level.
1 Compass Saw.
1 Carpenters' Pincers.
1 Cabinet File.
2 Gimlet Bits.
1 Screw Driver Bit.
1 Pair Compasses.
1 Draw Knife.
1 Jack Plane.
1 Bench Screw.
1 Nail Set.
1 Chalk Line.
1 Carpenters' Chalk.

Tools in all Chests are of good quality. Grade improves with the advance in price

# Plumb Bobs.

Iron.

Half Size Cut of No. 0.

## Iron.

**Japanned, Adjusted Top.**

| | | | |
|---|---|---|---|
| **No. 2**—Adjusted Top, Weight Each Net, 9½ ozs | Per Doz. | $1 | 60 |
| **No. 00** " " " " " 1 lb. 2 ozs... " " | | 3 | 00 |
| **No. 0** " " " " " 2 lbs. 10 ozs. " " | | 5 | 00 |

Nos. 2 and 00. Half Dozen in a Box. No. 00 are Loose.

## Lead.

| | | | |
|---|---|---|---|
| **No. 3** Steel Pointed, Weight Each Net, 12 ozs | Per Doz. | $6 | 25 |
| **No. 4** " " " " " 1¼ lbs..... " " | | 8 | 00 |

Half Dozen in a Box.

Lead.

Nos. 3 and 4.
Half Size Cut of No. 4

Cast Brass.

Half Size Cut of No. 6.

## Cast Brass.

**Screw Top, Steel Point.**

| | | | |
|---|---|---|---|
| **No. 5**—Weight Each Net, 6 ozs..... Per Dozen, | | $ 7 | 25 |
| **No. 6** " " " 12 " ..... " " | | 10 | 00 |
| **No. 8** " " " 16 " ..... " " | | 11 | 40 |

Half Dozen in a Box

## Adjustable.

**Steel Point.**

| | | | |
|---|---|---|---|
| **No. 1**—Small Bronze Metal, Weight Each Net, 8 ozs....Each, | | $1 | 50 |
| **No. 2**—Large " " " " " 13 " ... " | | 1 | 75 |
| **No. 5**—Large Iron Japd. " " " " 13 " .... " | | 1 | 00 |

One in a Box.

Adjustable.

Nos. 1 to 5.

Mechanics'.

Nos. 5 to 8.

## Thompson's.

### Mechanics'.

**Bronze Metal, Steel Points.**

Positively Accurate

| | | | |
|---|---|---|---|
| **No. 5**—Weight Each Net, 8 ozs.....Each, | | $1 | 50 |
| **No. 7** " " " 18 " ..... " | | 3 | 00 |
| **No. 8** " " " 30 " ..... " | | 3 | 50 |

### Surveyors'.

**Bronze Metal, Steel Point.**

| | | | |
|---|---|---|---|
| **No. 9**—Weight Each Net, 7½ ozs.....Each, | | $2 | 00 |
| **No. 10** " " " 10½ " ..... " | | 2 | 50 |

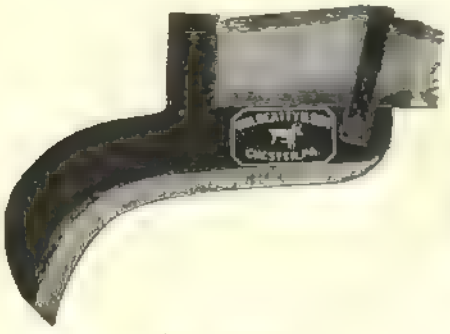
One in a Wooden Box.

Surveyors'.

Nos. 9 and 10.

# BUSH HOOKS.

BEATTY'S

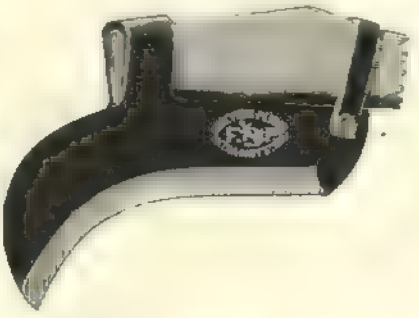


Nos. 1 and 2.

COLLINS'.

Nos. 11 and 12.

PLUMB'S.



Nos. 791 and 792.

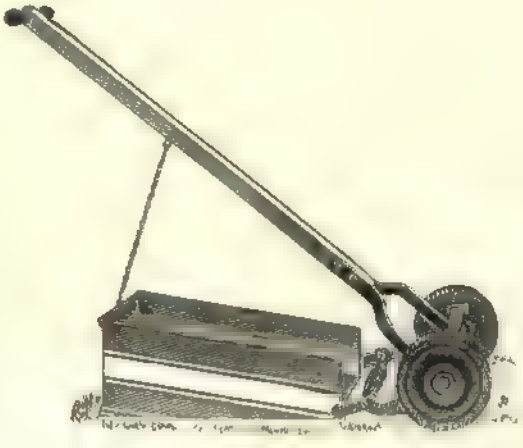
Handled. Cast Steel.

| | | | | | |
|---|---|---|---|---|---|
| **No. 1**—Blue finish. | Medium. | Weight, 45 lbs. | | Per dozen, | $15.00 |
| **No. 2**— " " | Heavy. | " 54 " | | " | 17.00 |
| **No. 11**—Black finish. | Medium. | " 54 " | | " | 24.00 |
| **No. 12**— " " | Heavy. | " 66 " | | " | 26.00 |
| **No. 791**—Bronze finish. | Medium. | " 38 " | | " | 15.00 |
| **No. 792**— " " | Heavy. | " 54 " | | " | 17.00 |

Beatty's, two dozen; balance, one dozen in box.

# GRASS CATCHERS.

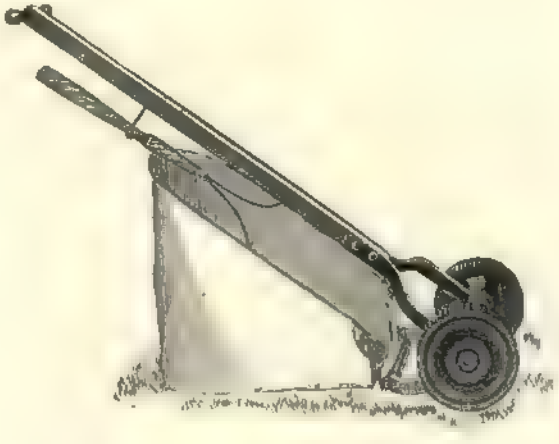
EUREKA.



Fits any Make of Lawn Mower. Heavy Wire Frame. Full Canvas.

**No. 16**—For 12 to 16-inch mowers. Weight, 24 lbs. ..... Per dozen, $9.00

EASY EMPTYING.



Fits any Make of Lawn Mower. Is Lifted Off to Empty. Left Off when Desired. Made from Heavy Duck. Galvanized Frame. Hardwood Handle.

**No. 1**—For 12 to 18 inch mowers. Weight, 36 lbs. ..... Per dozen, $16.00

# SCYTHES.

## BLOOD'S.

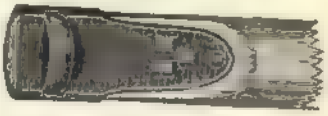
| | | | |
|---|---|---|---|
| **No. 23**—Clipper grass. Gold bronzed. Assorted, 28 to 32, 30 to 34, 32 to 36 inches | Per dozen, | $12.00 |
| **No. 26**—Western Deterham grass. Painted red. Assorted, 28 to 32, 30 to 34, 32 to 36 inches | " | 12 00 |
| **No. 30**—Waldron grass. Painted red. Assorted, 28 to 32, 30 to 34, 32 to 36 inches | | 11.50 |
| **No. 34**—Beaded " " " " 28 " 32, 30 " 34, 32 " 36 " | " | 11.50 |
| **No. 50**—Bush. Painted red. Assorted, 18 to 20 inches | " | 12 00 |
| **No. 52**—Weed. " " " 26 " 32 " | " | 12 00 |
| **No. 58**—Bramble. " " " 24 " 28 " | " | 12.00 |

One-half dozen in straw bundle. Average weight, 32 lbs.

# SCYTHE SNATHS.

GRASS

BUSH.



**No. 50**—Patent loop. Adjustable swing socket. Iron ferrule. Weight, 50 lbs. ..... Per dozen, $12.00

**No. 105**—Heavy. Patent loop. Iron ferrule. Weight, 60 lbs. ..... Per dozen, $13.50

One-half dozen in bundle

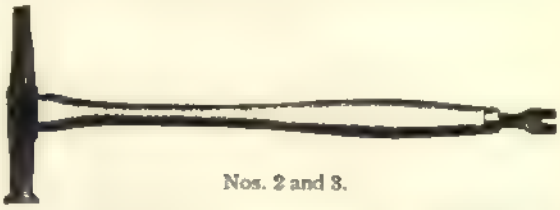
# TACK HAMMERS.

No. 12.

Nos. 05 and 5.

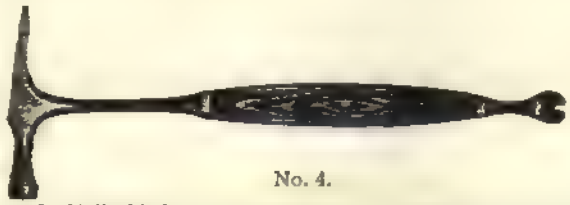
**No. 12**—Magnetic. Iron. Japanned Handle. With claw. Weight, 6 lbs ..... Per dozen, $1 25
**No. 05**—Polished Hickory handle. Weight, 4 lbs ..... " 1.25
**No. 5**—Nickle-plated. " " " 4 " ..... " 1.50

No. 25.



Nos. 2 and 3.

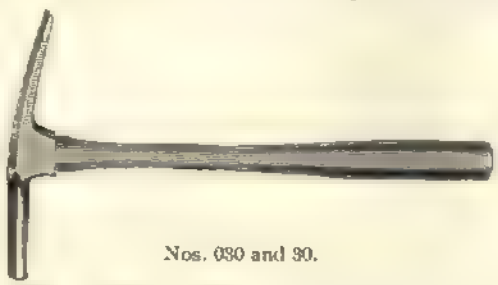
**No. 25**—Full polished Hickory handle With claw, Weight, 4 lbs..... Per dozen, $1 50
**No. 2**—Magnetic. Medium size. Hickory handle. With claw. Weight, 3½ lbs..... " 1 50
**No. 3**— " Large " " " " " " 4¼ " ..... " 1 75



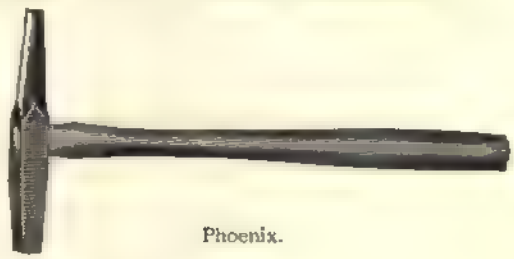
No. 4.

No 015.

**No. 4**—Malleable iron. Hardened face. Inlaid black walnut handle. With claw Weight, 5 lbs ..... Per dozen, $2 50
**No. 015**—Polished. Bell face. Hickory handle. Weight, 4 lbs..... " 2 75



Nos. 030 and 30.



Phoenix.

**No. 030**—Polished. Hickory handle. Weight, 4 lbs..... Per dozen, $2 25
**No. 30**—Nickel-plated. " " " 4 " ..... " 2 75
**Phoenix**—Magnetic. Extra quality, forged. Weight, 4¼ lbs..... " 5.00

One dozen in box.

# HAMMERS.

## MAYDOLE'S RIVETING.

Cast Steel, Polished.

| Nos. | 40 | 41 | 42 | 43 | 44 |
|---|---|---|---|---|---|
| Weight, each, lbs | 1½ | 1⅛ | 1¾ | 1⅝ | 1¼ |
| Per dozen | $8 50 | 7 25 | 6.00 | 5.25 | 5.00 |

## PLUMB'S RIVETING.

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|
| Weight, each, lbs | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1⅛ | 1⅜ | 1⅝ |
| Per dozen | $5 50 | 5 75 | 6 00 | 6 25 | 6 50 | 7 00 | 7 50 | 8 00 |

One half-dozen in box. Weights do not include handles.

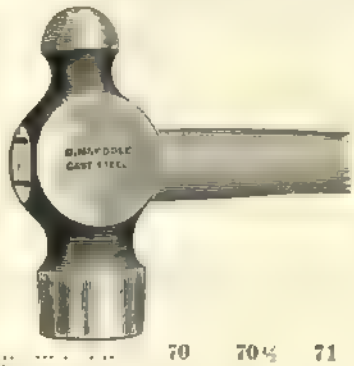
# HAMMERS.

## PHOENIX MACHINISTS' BALL PEIN.

Solid Cast Stee

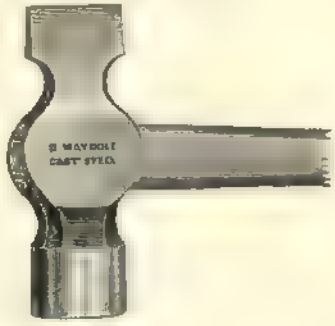
| Nos. | 4-0 | 3-0 | 2-0 | 0 | 1 | 2 |
|---|---|---|---|---|---|---|
| Weight, each, lbs. | ¼ | ½ | ¾ | 1 | 1¼ | 1½ |
| Per dozen | $12 00 | 12 00 | 12 50 | 13 50 | 13 50 | 14 50 |
| **Nos.** | **3** | **4** | **5** | **6** | **7** | **8** |
| Weight, each, lbs | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 |
| Per dozen | $15 00 | 16 50 | 17 00 | 19 00 | 20 50 | 22 00 |

## MAYDOLE'S MACHINISTS' BALL PEIN.



| Nos. | 70 | 70½ | 71 | 72 | 73 |
|---|---|---|---|---|---|
| Weight, each, lbs | 3 | 2¼ | 1⅞ | 1½ | 1⅛ |
| Per dozen | $20 00 | 17.00 | 15 00 | 13 50 | 12 25 |
| **Nos.** | **74** | **.75** | **76** | **77** |
| Weight, each, lbs | 1 | ⅞ | ⅝ | ¼ |
| Per dozen | $11.25 | 10.50 | 10.00 | 9 50 |

## MAYDOLE'S MACHINISTS' CHIPPING.



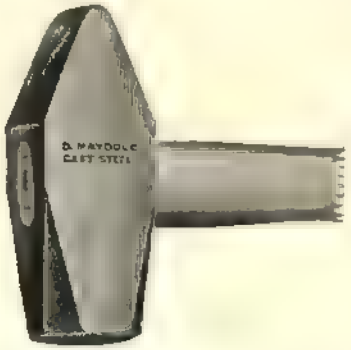
Solid Cast Steel

| Nos. | 100 | 101 | 102 | 103 |
|---|---|---|---|---|
| Weight, each, lbs | 2 | 1½ | 1¼ | 1 |
| Per dozen | $14.00 | 12.50 | 11.50 | 10 50 |

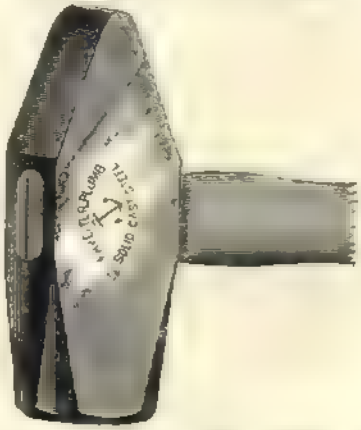
## MAYDOLE'S CARRIAGE IRONERS' HAND

| Nos. | 111 | 112 |
|---|---|---|
| Weight, each, lbs. | 2¼ | 2⅛ |
| Per dozen | $16 00 | 15 00 |

## MAYDOLE'S BLACKSMITHS' HAND.



## PLUMB'S ENGINEERS'.



Solid Cast Steel

| Nos. | 61 | 62 |
|---|---|---|
| Weight, each, lbs | 3 | 2⅝ |
| Per dozen | $15 00 | 14 00 |

| Nos. | 261 | 262 | 263 | 264 | 265 |
|---|---|---|---|---|---|
| Weight, each, lbs... | 1⅝ | 2 | 2½ | 3 | 3½ |
| Per dozen | $13.00 | 14.00 | 15.00 | 16.00 | 17.00 |

One-third dozen in box. Weights do not include handles.

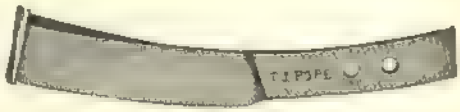
PACIFIC HARDWARE & STEEL COMPANY

# KNIVES.

## FARRIERS'.

POPE

No. 8834.



No 08834

**No. 8834**—Iron handle. Width of blade, ¾ and ⅞ inch ..... Per dozen, $6 00
**No. 08834**—Extra blades ..... 5 50

IXL

**No. 7834**—Bone handle. Width of blade, ⅝, ¾ and ⅞ inch.....Per dozen $7 00

## SHOE.

AMES'.

Plain Round Wood Handle.

| **No. 21**—Length of blade, inch..... | 2 | 3 | 4 |
|---|---|---|---|
| Per dozen ..... | $1 70 | 1.70 | 1.80 |

| **No. 22**—Length of blade, inch ..... | 2 | 3 | 4 |
|---|---|---|---|
| Per dozen ..... | $1 70 | 1 80 | 2 00 |

## SLOYD.

**No. 10**—Length of blade, 3 or 3½ inches .....Per gross, $30.00

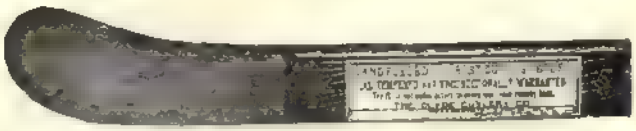
## OYSTER.

CRESCENT.

**No. 11**—Length of blade, 2, 2½, 3, 3½ and 4 inches .....Per dozen, $3 50

## FISH.

CLYDE.



**No. 75**—Beechwood handle. Length of blade, 3½ inches.....Per dozen, $3.00

# SPATULAS.

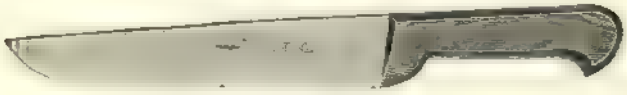
Cocobolo Handle. Steel Blade. Polished Steel Bolster.

| **No. 9806**—Length of blade, inch..... | 4 | 5 | 6 | 7 | 8 | 10 | 12 | 14 |
|---|---|---|---|---|---|---|---|---|
| Per dozen..... | $4.00 | 4.50 | 5.40 | 7.20 | 9.60 | 16.80 | 27.00 | 39.00 |

One half dozen in box.

# BUTCHER KNIVES.

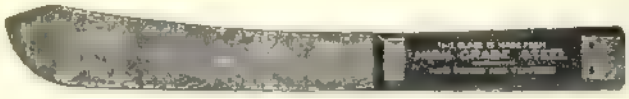
## STILETTO



French. Hand Forged. Beechwood Handle.

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **No. 201**—Length of blade, inch | 3 | 4 | 4½ | 5 | 5½ | 6 | 6½ | 7 | 8 | 9 | 10 | 11 | 12 |
| Per dozen | $2 75 | 3.00 | 3 25 | 3 50 | 4 00 | 4.50 | 5 00 | 6 00 | 7.50 | 9 00 | 11.00 | 12 50 | 14 00 |

## STERLING.



**No. 77.**

## CLYDE.

No 70

Riveted Beechwood Handle

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **No. 77**—Length of blade, inch | 4½ | 5 | 5½ | 6 | 6½ | 7 | 8 | 9 | 10 | 12 | 14 | 16 |
| Per dozen | $2 90 | 2 30 | 3 40 | 4 00 | 4 80 | 5 80 | 7 00 | 9 00 | 10 50 | 16 50 | 23 50 | 27 00 |
| **No. 70**—Length of blade, inch | 5 | 5½ | 6 | 6½ | 7 | 8 | 9 | 10 | 11 | 12 | 14 | |
| Per dozen | $3 50 | 4 00 | 4.50 | 5 00 | 6 00 | 7.50 | 9 00 | 11 00 | 12.50 | 14.00 | 21.00 | |

## CLYDE.

Riveted Cocobolo Handle Inlaid Polished Steel Bolster

| | |
|---|---|
| **No. 60**—Length of blade, inch | 6 |
| Per dozen | $7 00 |

Cocobolo Handle Brass Rivets Polished Steel Bolster.

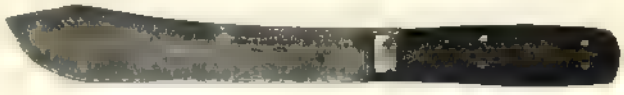
| | | | |
|---|---|---|---|
| **No. 99**—Length of blade, inch | 6 | 8 | 10 |
| Per dozen | $7 00 | 8.00 | 9.00 |

## WILSON.

Nos. 26 to 88.

Riveted Beechwood Handle.

## LAMSON & GOODNOW.



No. 9805.

Riveted Cocoa Handle. Polished Steel Bolster.

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Nos.** | 26 | 27 | 28 | 29 | 30 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 86 | 88 |
| Length of blade, inch | 4½ | 5 | 5½ | 6 | 6½ | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 16 |
| Per dozen | $3 50 | 3.80 | 4 40 | 5 20 | 6 40 | 7 60 | 9 60 | 11 80 | 14 40 | 18 50 | 21 60 | 25.20 | 31.50 | 42 00 |
| **No. 9805**—Length of blade inch | | | | | | 4½ | 5 | 5½ | 6 | 7 | 8 | 9 | 10 | 12 |
| Per dozen | | | | | | $4 50 | 4 70 | 5 00 | 5 50 | 7.00 | 9 00 | 12 00 | 15 00 | 21.00 |

## WILSON.

RIBBING.

**No. 145**—Flexible blade, 9 inches long. Riveted beechwood handle..... Per dozen, $12 50

One-half dozen in box.

PACIFIC HARDWARE & STEEL COMPANY

# PRIEST'S HAND CLIPPING MACHINES.

## SWING. STAND.

These Machines are of Wide Range and of Tremendous Power. They are Furnished with an All Steel Patent Shaft and No 15 Handle, and are Practically Noiseless. Right or Left Hand Operation of the Drive Wheel is Quickly Secured by Swinging the Handle of Balance Arm to Opposite Side.

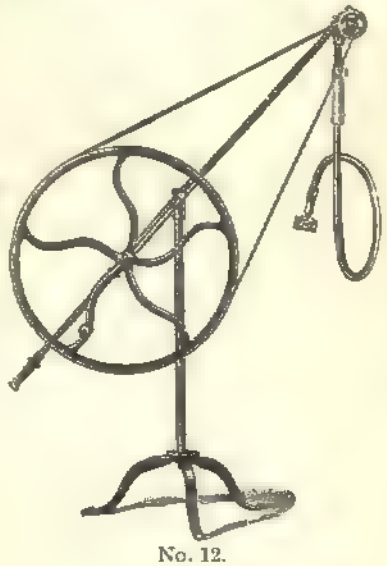
No. 11.

**No. 11**—Complete with cutting handle and 1 extra set of cutters.....Each, $14.00

Weight, boxed for shipment, 86 lbs.

**No. 12**—Complete with cutting handle and 1 extra set of cutters.....Each, $16.50

Weight, boxed for shipment, 94 lbs.



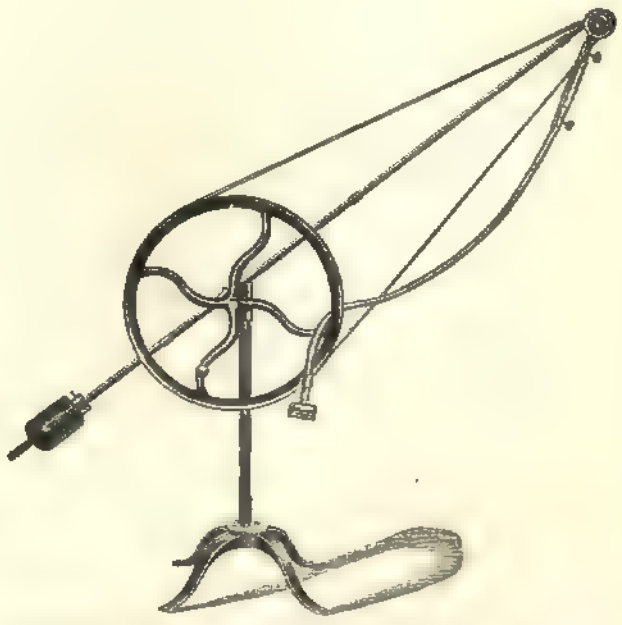
No. 12.

## STAND.

Geared 3 to 1. Ball-bearing, and a fast, smooth cutting machine. The only machine having an all steel, flexible shaft with riveted joints.

**No. 15**—Complete with 1 vibrating handle and 1 extra set of cutters.....Each, $20 00

Weight, boxed for shipment, 100 lbs.

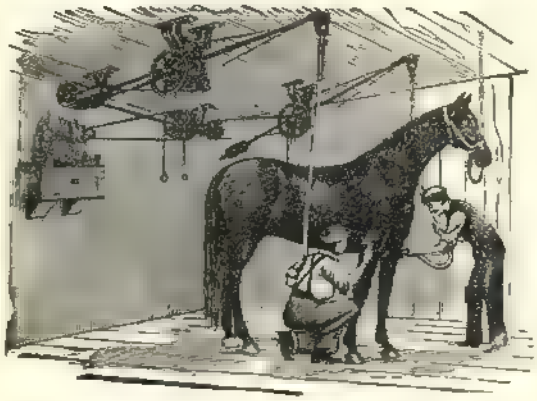


Ball-bearing, noiseless, light running and durable. Has a long balance arm, with a 4½-foot shaft, driven from a 28-inch ball-bearing balance wheel. All parts are interchangeable, can be duplicated by number, and are fully warranted to be of the best material and workmanship. Machine is furnished with rotary or 3-inch vibrating cutter.

**No. 10**—Complete with cutting handle and 1 extra set of cutters.....Each, $30 00

Weight, boxed for shipment, 145 lbs

# PRIEST'S POWER GROOMING AND CLIPPING MACHINES



## CLIP OR CLEAN.

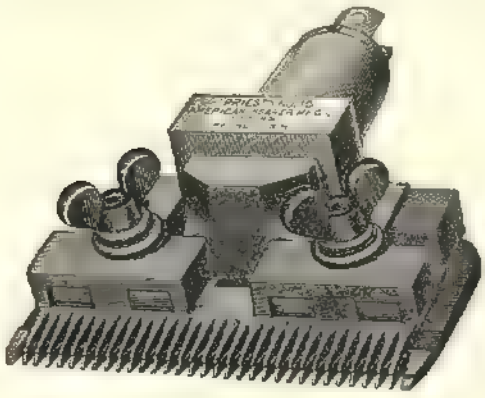
Strong, durable and light running. Is ball bearing throughout and furnished with self-oiling boxes of the most improved type, making it a very fast, smooth running and practically noiseless machine. Any power may be used, ½ horse-power being the maximum for clipping. In using the grooming attachment, 1 to 1½ horse-power may be used; we recommend the latter. This machine is also furnished with a counter-shaft and all overhead work for 2 shafts, making a double machine.

| | | |
|---|---|---|
| **No. 7**—Single machine. Complete for 1 operator | Each, | $ 75.00 |
| **No. 7**—Double " " " 2 operators | " | 125.00 |
| Grooming attachments, extra | " | 14.00 |
| Extra brushes for grooming attachments | " | 9.00 |

Weight, boxed for shipment, 315 lbs.

# EXTRAS FOR PRIEST'S CLIPPERS.

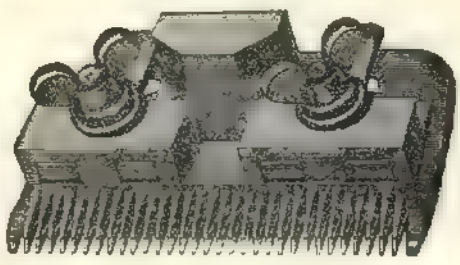
## VIBRATING HANDLE AND CUTTER.



For All Priest's Flexible Shaft Machines.

| | | |
|---|---|---|
| **No. 15**—With 3-inch cutter | | $12 00 |
| **No. 10**— " extra set, 3-inch cutter | | 30 00 |

## VIBRATING CUTTER.



For Priest's Handle.

These cutters are made with or without ball bearings

| | | |
|---|---|---|
| **No. 10**—Set, 3-inch | | $6 00 |
| Bottom plates | | 3.00 |
| Top " | | 2.00 |
| **No. 15**—Set, 3-inch | | 6.00 |
| Bottom plates | | 3.00 |
| Top " | | 2.00 |

| | | |
|---|---|---|
| Vibrating handle for all Priest's flexible shaft machines, with extra set of 3-inch cutters | Per set, | $30 00 |
| Rotary handle for all Priest's flexible shaft machines | Each, | 30 00 |
| Rotary combs, large | " | 8 00 |
| Rotary " small | " | 7 00 |
| Shafts for No. 7 machine | " | 20 00 |
| Cases " " 7 " | " | 10.00 |
| Flexible shaft for No. 15 machine | " | 10 00 |
| Shafts | " | 10 00 |
| Cases | " | 6 50 |
| Balance arm sockets | " | 3.00 |
| No. 2 collars | " | 1.00 |
| Wooden handle with stud for No. 10 machine | Each, | $0 50 |
| Pressure plates | " | 50 |
| Slide screws | " | 50 |
| Bottom plate screws | " | 10 |
| Rolls | " | 50 |
| Bolts | " | 10 |
| Nuts | " | 10 |
| Springs | " | 10 |
| Links | " | .10 |
| Intermediate pieces | " | 10 |
| Rivets | Per dozen, | .10 |

☞ Orders should state for what machine parts are wanted.

PACIFIC HARDWARE & STEEL COMPANY

# FLOBERT RIFLES.

**No. 200**—Plain varnished stock, blued mountings, shell extractor; shoots BB caps only ..... Each $3 00

**No. 225**—Checkered pistol grip, walnut stock, shoots BB caps or 22 short or 22 long R. F. cartridges..... Each, $3 50

**No. 250**—Warnant action, blued octagon barrel, well rifled, checkered, oiled walnut stock, pistol grip; shoots BB caps or 22 short or 22 long R. F. cartridges..... Each, $4.00

# QUACKENBUSH RIFLES.

## TAKE DOWN SAFETY.

Safety rifle, full length, 33 inches, adapted to shoot 22 short, 22 long, 22 long rifle rim fire cartridges, also BB and CB caps. Nickel-plated or blued barrels.

**No. 0**—18-inch barrel..... Each, $6.00
**No. 00**—22 " " ..... " 6.50

Junior Safety, same as Safety, with steel wire stock.

**No. 01**—18-inch barrel..... Each, $5.50

## IMPROVED AIR GUN.

**No. 1**—Shoots darts and slugs. Full length, 36 inches, weight 4½ pounds..... Each, $3 50
**No. 2**—Same size as No. 1, but heavier and stronger, more suited for close shooting or gallery use..... Each, 7 50

Each gun is neatly boxed with 6 patent darts, 6 paper targets, 100 slugs, together with a claw.

## COMBINATION AIR GUN.

**No. 9**—Rifled steel barrels, will shoot 22 short cartridges, BB shot, darts or slugs with an accurate range of 60 feet. Each gun is neatly boxed with 6 patent darts, 6 paper targets, 100 slugs, together with a claw. Full length, 40 inches, full nickel..... Each, $12 00

# Newman's Watchman's Clock.

Figure A. Front View of Clock.

## The Stationary Clock

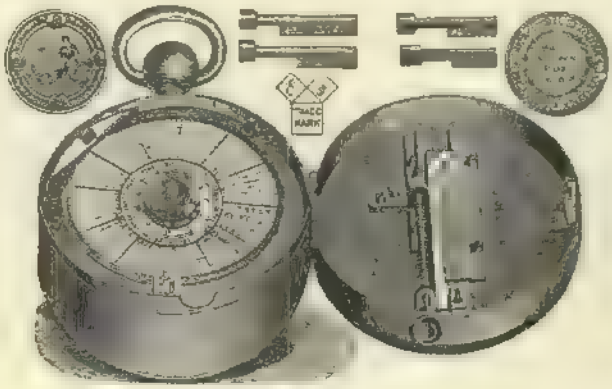
is the best system of Watch Clocks, especially where from one to three or four stations are necessary.

The Square Clock as represented in Figure A, is operated by an 8-day lever movement, so that it will run in any position. The movement is a quick train, and if forgotten, will run fourteen days without winding. They should, however, be wound every week, to insure keeping time. The movement is enclosed in an extra case to keep out moisture and dust. The Cases are made of finely finished Oak and Cherry.

This Clock has the following advantages over other systems: It serves as a large, fine-looking eight-day time piece. There is nothing to get out of order more than there is in an ordinary clock, having only two more wheels, in addition to which is a button with a needle at its end, which pricks the dial as the watchman presses it. It can be placed anywhere and can be moved at will by anyone, as it is fastened up with only two screws, which, however, are inside the case, so that the watchman cannot take the clocks down and carry them to some convenient place

**Figure A**—Size, 14×14 in., Oak or Cherry Case.....Each, $25 00

# Imhauser's Watchman's Time Detector.



**This Instrument Is Supplied with 12 or 24 Different Keys for the Different Stations in or Outside the Buildings.**

This Watch is operated by twelve different keys Nos. 1 to 6 mark between the circles 1, 2, 3, 4, 5, 6, on a paper disk, which is slowly revolving, the remaining six keys Nos. 7 to 12 make a figure on the line of the circle, so that one does not conflict with the other. Watches pricking holes are not reliable, and generally confusing, and liable to get out of order

On old style watches the marking apparatus, being in the case with the movement, is very susceptible of dust, the least particle of which getting into the works stops the watch.

The Safety Lock Attachment is an important recent invention, because it prevents dishonest watchmen from opening the watch with false keys and marking the dials without making their rounds. It is provided with an additional stationary marker (little knife in the cover), which marks the dial in the outside circle, showing at once any attempt of the watchman to open the watch.

In these instruments the marking apparatus is in the cover of the case, the watch movement being separate and therefore, prevents dust from entering the keyhole.

On the different stations of the watchman's beat, keys are fastened to indicate the stations up to twelve or more.

The watchman in the evening receives the watch locked in a pouch, properly wound and set.

In making his rounds the watchman on arriving at the station will insert the key in the keyhole and turn it to the right once, and on so doing a figure is punched on the dial at the minute the hand of the watch indicates.

The person in charge of the watch on receiving it in the morning from the watchman, can see in a moment how often the watchman was at the different stations, and the exact minute he was at each. If watchman failed to visit all the stations it will be shown on the dial.

No person employing a night watchman should be without the Time Detector for one night, for this instrument compels him to be faithful; the risk of loss, either by robbery or fire, is reduced to a minimum.

The detectors are as reliable as the best lever watch, and are warranted in every case to be in perfect order.

Each, with Pouch Box of Dials and 12 Different Keys for 12 Stations.....Complete, $ 75 00
Each, " " " " 24 " " 24 " ..... " 100 00
Dials.....Per Box, 3 00

# DOUBLE BARREL HAMMERLESS SHOTGUNS.

## W. W. GREENER.

Monarch Ejector.

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **No. 800**—Seimen or wrought steel barrels, fine engraving, treble wedge, fast action, | | | | | | | | | | | 16 | gauge, | 28 or 30 | inch, | 6 | to 6½ lbs | .Each, $165 00 |
| **No. 801**— | " | " | " | " | " | " | " | " | " | " | 12 | " | 30 | " | 7 | " 8 " | " 165 00 |
| **No. 802**— | " | " | " | " | " | " | " | " | " | " | 10 | " | 30 | " | 8½ | " 9 " | " 175 00 |
| **No. 810**—Fine Damascus | | | " | " | " | " | " | " | " | " | 16 | " | 28 or 30 | " | 6 | " 6½ " | " 165 00 |
| **No. 811**— | " | " | " | " | " | " | " | " | " | " | 12 | " | 30 | " | 7 | " 8 " | " 165 00 |
| **No. 812**— | " | " | " | " | " | " | " | " | " | " | 10 | " | 30 | " | 8½ | " 9½ " | " 175 00 |

Special orders for Greener guns will have our careful and prompt attention.

# COMBINATION SHOTGUNS AND RIFLES.

## BELGIAN TWO-BARREL.

**No. 500**—Hammer gun. Top lever. Back action, rebounding locks. Steel barrels. Walnut pistol grip stock. Three leaf sight. 30-inch barrels. Shotgun barrel, 12 gauge, rifle barrel, 30-30 or 38-55. Right barrel shot, left barrel rifle. Weight, 8 to 8½ lbs. Each, $40 00

## CHARLES DALY THREE-BARREL.

**No. 900**—Hammer gun. Top lever. Krupp steel barrels. English walnut pistol grip stock. Extension matted rib. Open sights and folding rear sight. The plunger for the rifle is set by pushing the top lever to the left, and is fired by the right hand trigger. Shotgun barrels, 12 gauge, rifle barrel, 30-30 or 38-55. 28-inch barrels. Weight, 7¼ to 8 lbs...Each, $100.00

**No. 901**—Hammerless gun. Top lever. Krupp steel barrels. Adapted to smokeless powder. Fitted with open sights and folding rear sight. The rifle is cocked by pushing down the small lever on the left side of the action, which uncocks the shotgun barrels at the same time. Shotgun barrels, 12 gauge, rifle barrel, 30-30 or 38-55. 28-inch barrels. Weight, 7¼ to 8 lbs. .....Each, 150.00

# SINGLE BARREL SHOTGUNS.

## 20TH CENTURY.

No. 90

**No. 90**—Top snap, low rebounding hammer, electro steel barrels, walnut stock, rubber capped pistol grip, fore-end attached to barrel, 12 and 16 gauge, 30-inch barrel, weight, about 6¼ lbs.....Each, $6 00

**No. 95**—20th Century, with automatic ejector..... " 7.00

## REMINGTON.

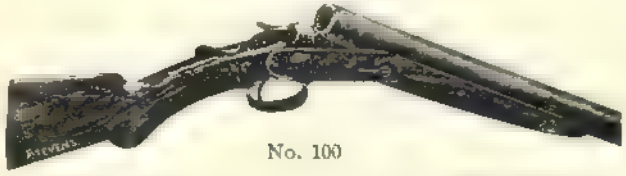
No. 9

Automatic Ejector

**No. 9**—Top lever, blue steel barrels, rebounding lock, side cocking lever, case hardened frame, rubber butt-plate, pistol grip stock, choke bored, 28, 30, 32, 34-inch barrels, weight, 6½ lbs.

12, 16 and 20 Gauge..... Each, $10 00
10, 24 and 28 " 11 00

## STEVENS'.



No. 100

**No. 100**—Top snap, low rebounding hammer, electro steel barrel, choke bored for nitro powder, pistol grip, walnut stock, rubber butt-plate, case-hardened frame, fore-end attached to barrel, 12 and 16 gauge, 30-inch barrel, weight, 6¾ lbs.....Each. $ 7 50

**No. 110**—Same as No. 100, with automatic shell ejector and checkered pistol grip ..... Each, 8 50

**No. 140**—Hammerless, top snap, special pyro-electro steel barrel, choke bored for nitro powder, walnut stock, rubber butt-plate, case hardened frame, pistol grip, checked and capped with a patent forearm, checked Automatic shell ejector with a special device by which operator can at will, change the gun from an ejector to an extractor by two turns of the screw.

12 gauge, 28, 30 32-inch barrel, weight, about 6¼ lbs..... Each, 12 00
16 gauge 28, 30-inch barrel, weight, about 6½ lbs. " 12 00
20 " 28 " " " " 6 " " 12 00

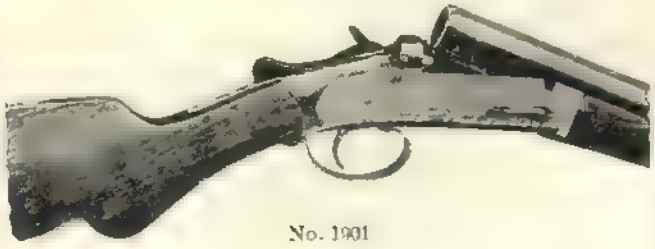
## HOPKINS & ALLEN.

No. 7½

**No. 7½**—Blued steel barrels, walnut stock, pistol grip, detachable fore-end, automatic shell ejector. Bored to use nitro powder, 12, 16 and 20 gauge, length of barrel, 12-gauge, 30-inch, weight, 6¾ lbs.....Each, $8 00

16 and 20 Gauge, 28-inch..... " 8 00

## IVER JOHNSON.



No. 1901

Top Snap Automatic Ejector.

**No. 1901**—Carbon Steel Barrels, case-hardened steel frame, dull finish, black walnut pistol grip stock, rubber butt-plate, single locking bolt, rebounding lock and center hammer, 12 or 16 gauge, 30-inch barrel, weight, 6¾ lbs.....Each, $9 50

## IVER JOHNSON.

No 1900

Semi-Hammerless, Automatic Ejector.

**No. 1900**—Carbon steel barrel, browned, case-hardened frame, black walnut pistol grip stock and fore-end; can be opened, closed and fired without changing position of the hands.

12 or 16 Gauge, 30-inch barrel, weight, 6¾ lbs..Each, $11.50

PACIFIC HARDWARE & STEEL COMPANY

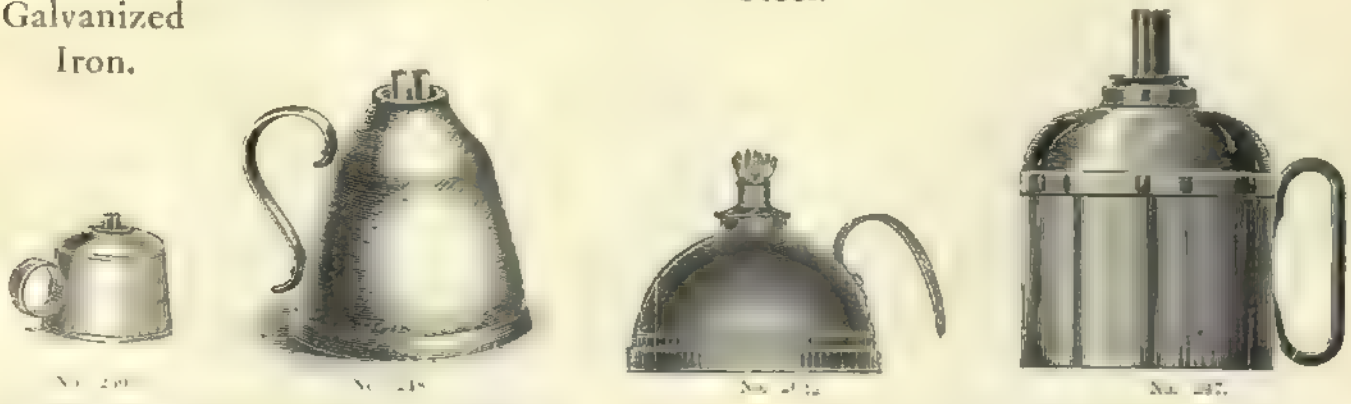
# Hand Lamps.

Galvanized Iron.

Malleable Iron.

Steel.

Spun Brass.



No. 250 — No. 248 — No. 20½ — No. 247.

**No. 250** —Hand, Galvanized Iron, Capacity ½ Pint, No. 1 Lard Oil Burner, Weight per Dozen, 6 lbs. Per Dozen, $ 4 50

**No. 248** ½ Pint, Malleable Iron, Indestructible, Weight per Dozen, 14 lbs " " 8 50

**No. 20½** ½ " 3¾ in Diameter, Steel, Copper Plated, Weight per Dozen, 9 lbs. " " 9 00

One Dozen in a Box.

**No. 247** ½ Pint, Spun Brass, Heavy, Navy Pattern, Made in One Piece, No Seams, Weight per Dozen, 12 lbs. Per Dozen, 12 00

Half Dozen in a Box.

# Inspectors' and Locomotive Torches.

## Durable, Non-Explosive.

No. 26. No. 27.

**Steel, Bronzed or Copper Plated.**

**No. 26** 1 Pint, 2 in. Diameter, 15 in. High, Brass Cap and Tube, Heavily Copper Plated Inside, Weight per Dozen, 12 lbs Per Dozen, $ 12 00

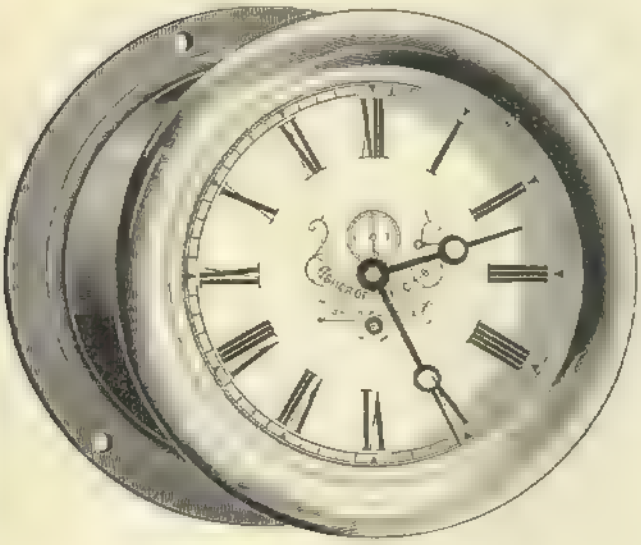
**No. 27** - 1½ Pint, 2 in. Diameter, 4⅛ in. High, Brass Cap and Tube, Heavily Copper Plated Inside, Weight per Dozen, 15 lbs. Per Dozen, 12 00

These Torches are made of extra heavy steel, making them the strongest and safest torches for railroad use with kerosene.

Half Dozen in a Box.

# Locomotive, Marine and Engine Room Clocks.

Eight Day Movement.



**Movements Carefully Adjusted Before Sending Out.**

These Clocks are designed for use in Engine Rooms in general, for Marine Service, and for use on Locomotives

These Clocks are made up in Heavy Brass Cases. Dials are made of Copper, Silvered, and Engraved. Rings are Hinged and Locked

Seth Thomas Movement.

## Locomotive, Marine and Engine Room Clocks.

**Brass, Deep Case.**

| | | | |
|---|---|---|---|
| 6¾ inch Dial | Each, | $45 | 00 |
| 8½ " " | " | 55 | 00 |
| 10 " " | " | 65 | 00 |
| 12 " " | " | 90 | 00 |

# Revolution Counter.

With Round Case.

The construction of this Counter is such that either a reciprocating or continuous movement of the crank shaft will transmit a positive rotating motion to the decimal wheels. This is accomplished through the medium of the verge movement, which consists of a verge wheel rigidly attached to the initial decimal wheel; a sliding plate placed transversely to such verge wheel.

The rings are connected to the cases by strong, substantial, and mechanically fitted hinges; cases are equipped with lock and key.

These instruments are driven from their right-hand side, as shown in cut, but they can be furnished with their driving crank on the left-hand side when so ordered

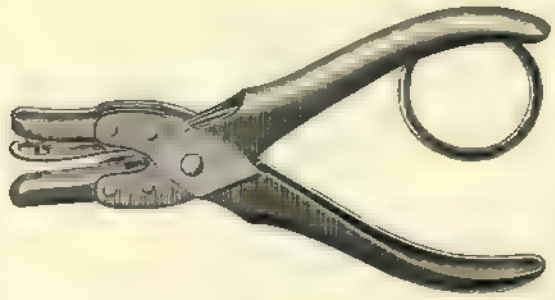
The lubricating facilities of the Counters are such that the oil has free access to all the frictional surfaces

## Ashcroft's Revolution Counters.

**Brass, Deep Case.**

| | | | | | | |
|---|---|---|---|---|---|---|
| 6¾ inch Dial. | 6 | Wheels | Each, | $60 | 00 |
| 8½ " " | 6 | " | " | 70 | 00 |
| 10 " " | 6 | " | " | 85 | 00 |
| 12 " " | 6 | " | " | 100 | 00 |
| 8½ " " | 8 | " | " | 80 | 00 |
| 10 " " | 8 | " | " | 95 | 00 |
| 12 " " | 8 | " | " | 110 | 00 |

# Conductor's Punches.



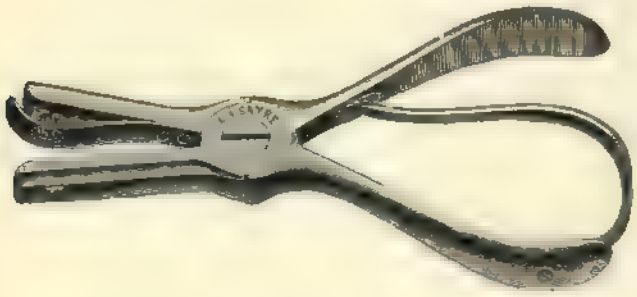
No. 26

All Steel, Nickel Plated.

**No. 26**—Assorted Dies, Weight per Dozen, 2½ lbs. ... ..... . .. .. ... .Per Dozen, $10 00

Half Dozen in a Box

## Sayre's.



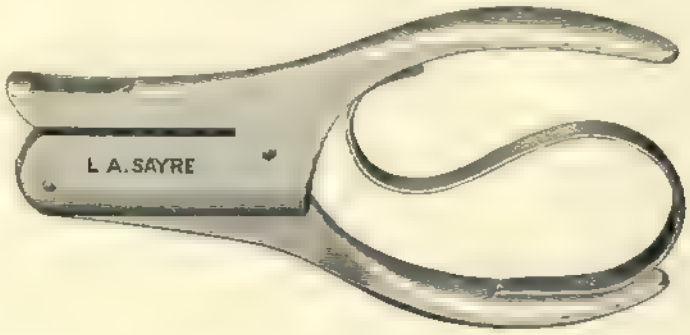
No. 39.

No. 430.

**No. 39**—Cast Steel, Nickel Plated, Length of Jaw 1½ in., Assorted Dies, Weight per Dozen, 3 lbs. ..... .... . ..... . ... ..... . ..... .. . . . ....Per Dozen, $18 00

**No. 430**—Cast Steel, Polished, Length of Jaw ⅞ in., Weight per Dozen, 3½ lbs. . . . . " " 9 00

Half Dozen in a Box.




No. 445

**No. 445**—Cast Steel, Nickel Plated, Length of Jaw 1 in., Improved Fancy Dies, Assorted, Weight per Dozen, 4 lbs. ....Per Dozen, $36 00

Half Dozen in a Box.

# RAILROAD TRACK TOOLS.

## TRACK LEVEL.

**No. 90**—Wood bar. Iron shod. Spirit glass in center, protected by handle. Weight, 6½ lbs.....Each, $3.50

## HUNTINGTON TRACK GAUGE.

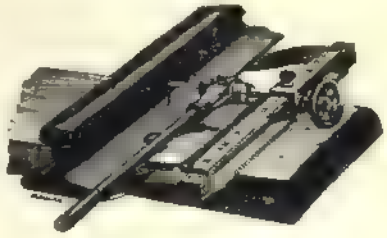
**No. 10**—Iron pipe stem. Malleable iron heads. Standard gauge, 4 feet 8½ inches. Weight, 12 lbs.....Each, $3 00

## RAIL BENDER OR JIM CROW.

Wrought Iron.

**No. 2**—Span, 22 inches. Diameter of screw, 2¼ inches. For iron rails, up to 55 lbs.; steel, to 45 lbs. Weight, 98 lbs.....Each, $35.00

## TRACK DRILL.



Wrought Iron.

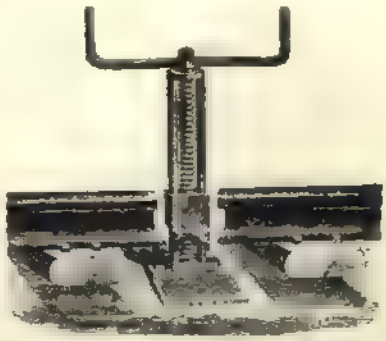
| | Each. |
|---|---|
| **No. 1**—Complete, with two drill points. Weight, 26 lbs. | $10 00 |
| Extra drill points | .50 |

## LIFTING AND CARRYING JACK.

Wrought Iron Body. Brass Nuts.

**No. 4**—Height, 26 inches. Main screw, 2½ inches diameter. Carries 12 inches. Weight, 156 lbs.Each, $90.00

## TRACK JACK.

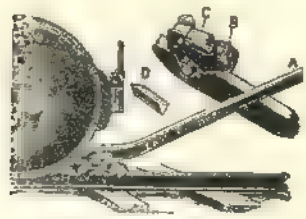


Wrought Iron.

**No. 2**—Diameter of screw, 1½ inches. Height, 24 inches. Weight, 47 lbs.....Each, $10.00

# RAILROAD TRACK TOOLS.

## CAR PUSHER OR PINCH BAR.



Solid Cast Steel.

**No. 1**—With two steel bits. Length of bar, 5½ feet. Weight, 20 lbs.....Each, $5.00

## RAIL TONGS.

Solid Cast Steel. Oil Finished

**No. 1**—For 50-lb. rail. Weight, 12 lbs.....Per pair, $4 00

## RAILROAD TRACK CHISELS

Solid Cast Steel. Oil Finished.

**No. 10**—Genuine Verona. Weight, each, about 5 lbs.....Per pound, $0.50

## RAIL FORK.

## TRACK WRENCH.

Solid Cast Steel.

**No. 20**—Rail Fork. Weight, 14 lbs.....Each, $3.00

**No. 30**—Track Wrench. Length, 20 inches. Weight, 4 lbs.....Each, $2.00

# CROW BARS.

## WEDGE POINT.

## PINCH POINT.

Solid Steel

**No. 40**—Wedge Point. Assorted weights, 12 to 20 lbs. each.....Per pound, $0.12

**No. 50**—Pinch Point. Assorted weights, 12 to 20 lbs. each.....Per pound, $0 12

# CLAW BARS.

# TAMPING BARS.

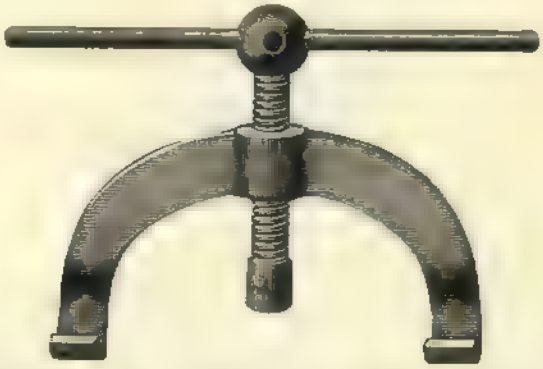
Solid Steel.

**No. 60**—Claw Bars. Weight, 20 lbs. each.....Per pound, $0.18

**No. 70**—Tamping Bars. Weight, 20 lbs. each...Per pound, $0.15

# Railroad Track Tools.

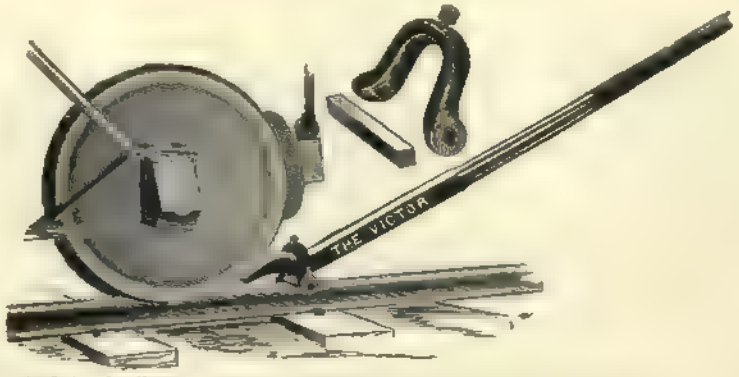
## Jim Crow, or Rail Bender.



**Best Wrought Iron With Machine-Cut, Square Thread, Steel Screw.**

**No. 1**—For Rails up to 25 lbs., Span 19 in., Diameter of Screw 2 in., Weight Each, 67 lbs ...Each, $26 00
**No. 2** " " " " 50 " " 22 " " " " 2¼ " " " 98 " .... " 36 00

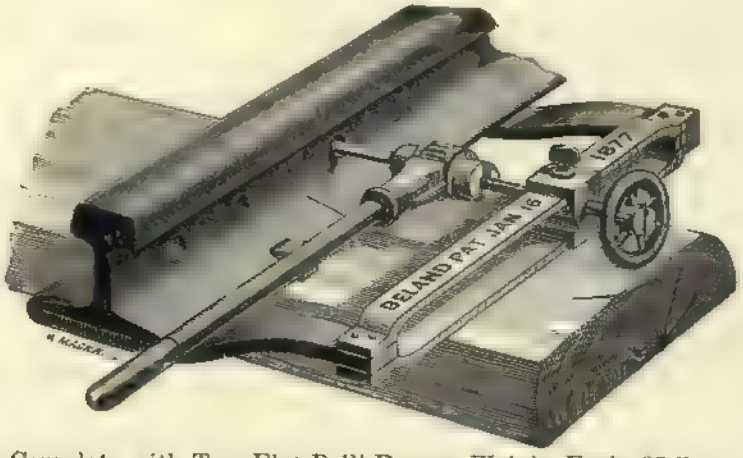
## The Victor Car Pusher.




**The Bit cuts into the Rail and prevents slipping, even though the Rail is Icy or Greasy.**

**Victor**—Length of Bar, 5 ft. 3 in., Weight Each, 20 lbs ..... .Each, $5 00

## Beland Track Drill.




**Beland**—Wrought Frame, Complete with Two Flat Drill Points, Weight Each, 27 lbs . . ...Each, $10 00
Extra Flat Drill Points.. ..... " 50

# Railroad Track Tools.

## Lifting and Carrying Jack.

Wrought Iron Legs, Steel Base, Wrought Iron Screws, Square Thread, Brass Top and Bottom, Nuts for Screws, Double Ratchet to Elevating Screw, Ratchet Lever fitting both ends of Traverse Screw.

**No. 2**—Diameter of Main Screw, 2⅜ in., Height when Down, 21 in , will Traverse 12 in., Length of Base, 25 in., Weight Each, 90 lb .....Each, $55 00

## Jenne Track Jacks.

Rear View

Front View.

**No. 1** 31 in. High, 12 in Lift, Weight Each, 60 lbs., Capacity 5 Tons, with Wooden Lever ... .Each, $30 00
**No. 2**—35 " " 15 " " " " 90 " " 10 " " " " ..... " 36 00

# Verona Nut Locks.

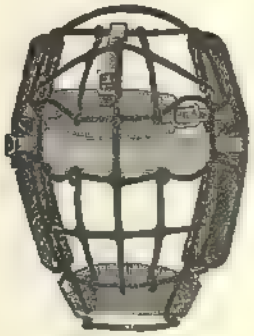
For use on Fish-plates, Cars, Locomotives, Switches, and every place where it is necessary to have a perfectly tight nut.

It is made of the Best Steel, oil tempered, and each one carefully tested and inspected.

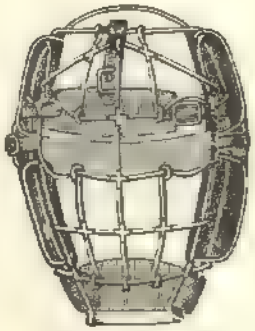
| Size, inch..... | ½ | ⅝ | ¾ | ⅞ | 1 |
|---|---|---|---|---|---|
| Weight per thousand, lbs..... | 29 | 32 | 70 | 78 | 85 |
| Per 1000..... | $14 00 | 15 00 | 19 20 | 20 50 | 28 00 |

# REACH CATCHERS' MASKS

No. 0.
Neck-protecting.



Nos. 1 and 2.
Association.



Nos. X, XX and 3.
Amateur.

Nos. C and D
Youth's.

**No. 0**—Black enameled Neck-protecting made of extra heavy steel wire, has an extension at the bottom, giving absolute protection to the neck.....Each, $ 3 00

**No. 1**—Black enameled special Association, made of heavy steel wire. This mask has been in constant use for years, and is endorsed by all players.....Each, 2 50

**No. 2**—Black enameled Professional, made of heavy steel wire, the padding well stuffed and faced with horsehide.....Each, 2 00

**No. XX**—Amateur, made the same size and style as No. 2, but with lighter steel wire, strongly constructed and warranted in every particular.....Per dozen, 18 00

**No. 3**—Amateur, made of heavy wire, well padded and finished in the best manner..... " 12.00

**No. X**—Amateur, Boy's, made in the same style and quality as No. XX, but smaller in size..... 12.00

**No. C**—Youth's, heavy wire, well padded, without head or chin piece..... 9.00

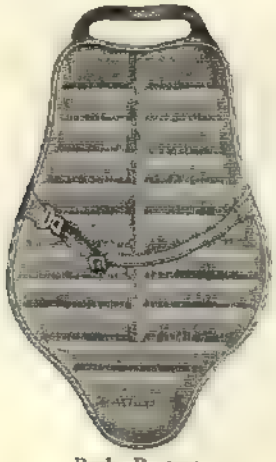
**No. D**— " light " " " " " " " " ..... 6 00

# REACH BODY PROTECTORS, HEEL AND TOE PLATES.

Toe Plate.

Pitcher's Toe Plate

Heel Plate.



Body Protector.
Nos. 1C, 2 and 3.

**No. 1**—Toe Plate, tempered steel, hand forged.....Per dozen pairs, $6.00

**No. 2**— " first quality steel..... " " 3.00

**No. 6**— " good " " ..... " " 1.80

**No. 5**—Pitcher's Toe Plate, aluminum..... " " 6.00

**No. 4**— " " " brass..... " " 3.00

**No. 1H**—Heel Plate, tempered steel, hand forged..... " " 6.00

**No. 3H**— " first quality steel..... " " 3.00

**No. 6H**— " good " " ..... " " 1.80

**No. 1**—League Body Protector, made of the best rubber, inflated with air, light and pliable.....Each, 6.00

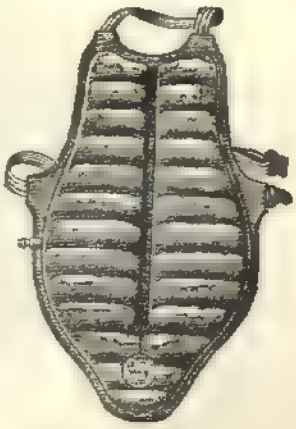
**No. 1A**—Amateur Body Protector, inflated..... " 4 00

Nos. 1 and 1A Body Protectors, when not in use, can be deflated and rolled up in a very small space.

**No. 1C**—Body Protector, heavy canvas, heavy reeds to break force of blow, laced in back.....Each, 3.00

**No. 2**—Body Protector, heavy canvas and padded with the best felt " 2.00

**No. 3**—Boy's Body Protector, heavy canvas, padded with the best felt.....Each, 1.00



Body Protector.
Nos. 1 and 1A.

# CATCHERS' MITTS.

## HERCULES BRAND.

No. 5000.

No. 5001.

Nos. 5002, 5004, 5005.

No. 5003.

**No. 5000**—Boys', made of all leather, red palm and fingers, yellow back, (assorted colors) lace fastener.....Per dozen, $ 4.25

**No. 5001**—Boys', " claret color leather throughout, crescent roll, lace fastener, well padded palm..... " 5.25

**No. 5002**—Men's, " " " " " palm with crescent roll, well padded, lace fastener..... " 7 50

**No. 5003**—Men's, " " " " " " " " " and well padded, leather bound edge, lace fastener.....Per dozen, 8.50

**No. 5004**—Men's, palm is made of drab buck tannage leather, tan color back and fingers, wine color edge band, palm well padded, crescent roll, and lace fastener.....Per dozen, 12,50

**No. 5005**—Men's, palm is made of oiled tannage calfskin, well padded, with crescent roll, tan color back and fingers, edge band with stiffener, leather bound fingers and lace fastener.....Per dozen, 17 50

Nos. 5006, 5007, 5008.

No. 5009.

No. 5010.

**No. 5006**—Men's, palm made of drab buckskin, correctly padded, crescent roll, balance made of tan colored leather, stiffener over finger tops, thumb thong stitched to mitt, lace fastener.....Per dozen, $22.50

**No. 5007**—Men's palm and back made of tan color calf tannage leather, oiled tanned calfskin fingers and edge band, palm well padded, crescent roll, leather stiffener over finger tops, thumb thong stitched to mitt, lace fastener.....Per dozen, 28.50

**No. 5008**—Men's, made of oiled tanned calfskin, drab buck tannage leather back, correctly padded palm, deep pocket, crescent roll, sole leather stiffener over finger tops, thumb thong stitched to mitt, lace fastener.....Per dozen, 36.00

**No. 5009**—Men's, palm is made of drab buckskin with large circle of oiled calfskin, deep pocket, crescent roll, sole leather stiffener over finger tops and calfskin edge band, thumb thong stitched to mitt, lace fastener.....Per dozen, 45.00

**No. 5010**—Men's, extra large size, made of drab buckskin throughout, palm correctly padded, deep pocket, crescent roll, sole leather stiffener over finger tops and calfskin edge strip, leather bound edges, lace fastener.....Per dozen, 60 00

# GUN EXTRAS.

## REMINGTON NEW MODEL DOUBLE HAMMER.

| No. | PARTS | No. 1 Grade. | No. 2 Grade. | No. 3 Grade. |
|---|---|---|---|---|
| 2 | Bolt | $0 50 | $0 50 | $ 0 50 |
| 3 | Bolt loop | .25 | .25 | .25 |
| 4 | Bridle, right or left | .30 | .30 | .30 |
| 5 | Butt-plate, rubber | 1.00 | 1 00 | 1 00 |
| 6 | Butt-stock | 8.00 | 9 00 | 10 00 |
| 7 | Bolt rocker | .50 | .50 | .50 |
| 8 | Bolt stop | .20 | .20 | .20 |
| 9 | Bolt stop cam | .10 | .10 | .10 |
| 10 | Bolt stop cam screw | .06 | .06 | .06 |
| 11 | Extractor | .75 | .75 | .75 |
| 12 | Fore-end, complete | 5.00 | 5 50 | 6 00 |
| 13 | Fore-end iron | 1.00 | 1.00 | 1 00 |
| 14 | Fore-end catch, complete | 1.50 | 1.50 | 1 50 |
| 15 | Fore-end catch base | 1.00 | 1.00 | 1.00 |
| 16 | Fore-end catch hook (catch) | .35 | .35 | .35 |
| 17 | Fore-end catch spring | .15 | .15 | .15 |
| 18 | Fore-end tip, rubber | .20 | .20 | .20 |
| 19 | Frame | 6.00 | 6.00 | 6.00 |
| 20 | Firing pin or solid head striker | 15 | 15 | 15 |
| 21 | Firing pin spring | .06 | .06 | .06 |
| 22 | Guard bow | $ 0 75 | $ 0 75 | $ 0 75 |
| 23 | Hammer | 1 50 | 1 50 | 1 50 |
| 24 | Joint check and extractor cam | .20 | .20 | .20 |
| 25 | Joint pin | .10 | .10 | .10 |
| 26 | Lever | 1 00 | 1 00 | 1 00 |
| 27 | Lever spring | .25 | .25 | .25 |
| 28 | Locks, per pair | 10 00 | 10 00 | 10 00 |
| 29 | Lock plate | .45 | .45 | .45 |
| 30 | Mainspring, right or left | .75 | .75 | .75 |
| 31 | Screws | .06 | .06 | .06 |
| 32 | Sear, right or left | .30 | .30 | .30 |
| 33 | Sear spring, right or left | .25 | .25 | .25 |
| 34 | Sight | .05 | .05 | .05 |
| 35 | Stirrup or swivel, right or left | .15 | .15 | .15 |
| 36 | Tumbler, right or left | .50 | .50 | .50 |
| 37 | Tumbler pin | .10 | .10 | .10 |
| 38 | Trigger plate | 1 00 | 1 00 | 1 00 |
| 39 | Trigger, right hand | .25 | .25 | .25 |
| 40 | Trigger, left hand | .25 | .25 | .25 |
| 41 | Trigger spring | .14 | .14 | .14 |

## ITHACA HAMMER.

| | | | |
|---|---|---|---|
| **No. 1**—Twist Barrels | Per pair, | $20 00 | |
| **No. 2**—Damascus Barrels | " | 30 00 | |
| **No. 3**—Finer grade Damascus (extra each grade) | Per pair, | 10.00 | |
| **No. 4**—Plain Hammers | Each, | .80 | |
| **No. 5**—Mainsprings | " | .30 | |
| **No. 6**—Sear Springs | " | .20 | |
| **No. 7**—Bolt Springs | " | .20 | |
| **No. 8**—Fore-end Springs | " | .40 | |
| **No. 9**—Fore-ends | Each, | $4 50 to $10 00 | |
| **No. 10**—Sear | Each, | 50 | |
| **No. 11**—Tumbler | " | .90 | |
| **No. 12**—Tumbler Pin | " | .10 | |
| **No. 13**—Trigger | " | .40 | |
| **No. 14**—Firing Pin | " | 20 | |
| **No. 15**—Screw | " | .10 | |
| **No. 16**—Trigger Plate, plain (eng. extra) | " | 3.00 | |
| **No. 17**—Rubber Butt Plate | Each, | $1 20 | |
| **No. 18**—Plain Guards (eng. extra) | " | 80 | |
| **No. 19**—Plain Stock | " | 7.00 | |
| **No. 20**—Finer Grade Stock, extra | Each grade, | 2 00 | |
| **No. 21**—Bolt | Each, | .60 | |

# GUN EXTRAS.

## PARKER TOP ACTION HAMMER.

| | Each. |
|---|---|
| No. 1—Hammer, from quality E to U | $1 00 |
| No. 2—Hammer, quality D | 1 25 |
| No. 3—Hammer, quality C | 1 75 |
| No. 4—Hammer, quality A and B | 2 00 |
| No. 5—Roll, No. 13 | 1 00 |
| No. 6—Extractor, No. 14 | 1 00 |
| No. 7—Tumbler and Mainspring | 1 00 |
| No. 8—Bridle | 75 |
| No. 9—Stirrup, Trigger Spring and Firing Pin | .20 |

| | Each |
|---|---|
| No. 10—Patent Fore-End Lever Spring | $0 20 |
| No. 11—Sear Spring | .75 |
| No. 12—Sear and Trigger | .50 |
| No. 13—Tumbler Pin, plain | 20 |
| No. 14—Tumbler Pin, engraved | .30 |
| No. 15—Trigger Plate | 1 50 |
| No. 16—Top Lever, No. 15 | 1 00 |
| No. 17—Top Lever Bolt, No. 16 | .50 |
| No. 18—Top Lever Bolt, No. 17 | .75 |

| | Each. |
|---|---|
| No. 19—Top Lever Spring, No. 20 | $0 75 |
| No. 20—Bolt Lever, No. 18 | 50 |
| No. 21—Trip, No. 21 | 25 |
| No. 22—Trip Spring No. 8 | 10 |
| No. 23—Patent Fore-End Fastener, complete | 3 00 |
| No. 24—Patent Fore-End Lever, F | 1 00 |
| No. 25—Patent Fore-End Tumbler, C | 50 |
| No. 26—Rubber Butt Plate | 1 50 |

## L. C. SMITH HAMMER.

| | | |
|---|---|---|
| No. 1—Hammer, line engraved, | Each, | $1.50 |
| No. 2—Mainspring | " | 1.00 |
| No. 3—Sear Spring | " | .50 |
| No. 4—Bolt Spring | " | .50 |
| No. 5—Fore-End Spring | " | .40 |
| No. 6—Lever | " | 1.50 |
| No. 7—Sear | " | .60 |
| No. 8—Tumbler | Each, | $1.00 |
| No. 9—Trigger | " | .40 |
| No. 10—Firing Pin | " | .20 |
| No. 11—Screw | " | .10 |
| No. 12—Stirrup | " | .40 |
| No. 13—Bridle | " | .60 |
| No. 14—Rubber Butt Plate | " | 2 00 |
| No. 15—Guard | Each | $1 50 |
| No. 16—Roll | " | 2.50 |
| No. 17—Trigger Plate | " | 2.50 |
| No. 18—Extractor | " | .50 |
| No. 19—Trip | " | .30 |
| No. 20—Bolt | " | 2.00 |
| No. 21—Trigger spring | " | .30 |

## FOREHAND HAMMER.

| | | |
|---|---|---|
| No. 1—Left Hand Hammer | Each, | $1 50 |
| No. 2—Right Hand Hammer | " | 1 50 |
| No. 3—Left Hand Trigger | " | 1 20 |
| No. 4—Right Hand Trigger | " | 1 20 |
| No. 5—Left Hand Tumbler | " | 1 50 |
| No. 6—Right Hand Tumbler | " | 1 50 |
| No. 7—Mainspring Carrier | Each, | $0 50 |
| No. 8—Firing Pin | " | 40 |
| No. 9—Trigger Spring | " | 30 |
| No. 10—Mainspring | " | 40 |
| No. 11—Top Lever | " | 1 50 |
| No. 12—Top Lever Spring | " | 50 |
| No. 13—Cam Lifter | Each | $0.80 |
| No. 14—Lever Screw | " | 10 |
| No. 15—Lever Trip | " | 50 |
| No. 16—Hammer Screw | " | 10 |
| No. 17—Guard Screw | " | .10 |
| No. 18—Firing pin screw | " | 10 |

## L. C. SMITH HAMMERLESS.

A—Frame. B—Fore-end. C—Lifter. D—Tumbler. E—Sear. F—Mainspring. G—Bridle. H—Trigger. I—Safety stud. J—Safety slide. K—Thumb piece. L—Tang.

| | | |
|---|---|---|
| No. 30—Mainspring | Each, | $0 50 |
| No. 31—Bolt Spring | " | 25 |
| No. 32—Fore-end Spring | " | 20 |
| No. 33—Trigger Spring | " | 15 |
| No. 34—Lever | " | 75 |
| No. 35—Tumbler | " | .50 |
| No. 36—Trigger | " | .25 |
| No. 37—Firing Pin | Each, | $0 15 |
| No. 38—Screw | " | 05 |
| No. 39—Bridle | " | 30 |
| No. 40—Rubber Butt Plate | " | 1 00 |
| No. 41—Lifter | " | 50 |
| No. 42—Crank Shaft | " | 1.00 |
| No. 43—Coupler | " | .50 |
| No. 44—Guard | Each, | $0 75 |
| No. 45—Roll | " | 1 25 |
| No. 46—Trigger Plate | " | 1.25 |
| No. 47—Extractor | " | .75 |
| No. 48—Trip | " | .45 |
| No. 49—Bolt | " | 1 00 |
| No. 50—Bushing | " | .10 |

## LEFEVER HAMMERLESS.

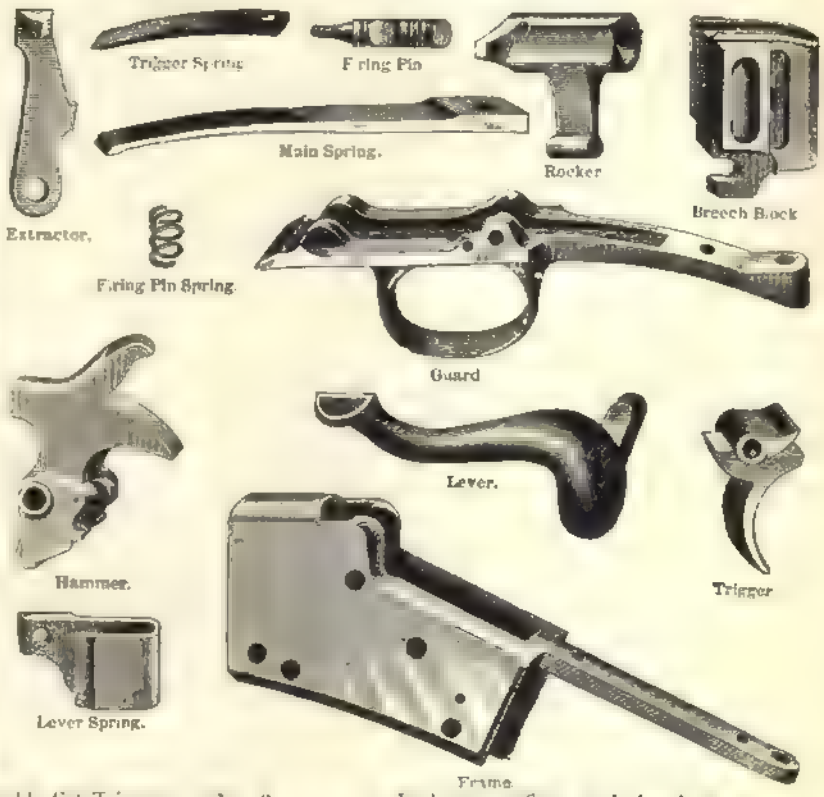
| | | |
|---|---|---|
| No. 1—Top Lever | Each, | $1.00 |
| No. 2—Top Lever Cam | " | .60 |
| No. 3—Top Lever Cam Screw | " | .30 |
| No. 4—Action Spring | " | .50 |
| No. 5—Top Bolt | " | .50 |
| No. 6—Trip | " | .40 |
| No. 7—Trip Spring | " | .20 |
| No. 8—Firing Pin | " | .50 |
| No. 9—Hammer, right hand | " | 2 00 |
| No. 10—Hammer, left hand | " | 2 00 |
| No. 11—Hammer Indicator | " | .20 |
| No. 12—Hammer Indicator Spring | " | .20 |
| No. 13—Mainspring | Each, | $1.00 |
| No. 14—Cocking Hook | " | 1.00 |
| No. 15—Cocking Bar | " | .70 |
| No. 16—Sear, right hand | " | 1.00 |
| No. 17—Sear, left hand | " | 1.00 |
| No. 18—Safety Slide | " | .70 |
| No. 19—Safety Slide Thumb Piece | " | .40 |
| No. 20—Trigger, right hand | " | 1.00 |
| No. 21—Trigger, left hand | " | 1.00 |
| No. 22—Trigger Spring | " | .20 |
| No. 23—Trigger Plate | " | 2.50 |
| No. 24—Trigger Guard | Each, | $2.00 |
| No. 25—Sear Spring | " | .20 |
| No. 26—Sear Screw | " | .20 |
| No. 27—Extractor | " | 1.50 |
| No. 28—Side Pin | " | .30 |
| No. 29—Upper Tang Screw | " | .30 |
| No. 30—Lower Tang Screw | " | 30 |
| No. 31—Trigger Plate Screw | " | 20 |
| No. 32—Fore-end Catch | " | .50 |
| No. 33—Fore-end Catch Screw | " | .20 |
| No. 34—Fore-end Catch Spring | " | .20 |
| No. 35—Firing Pin Bushing | " | .50 |

PACIFIC HARDWARE & STEEL COMPANY

# COMPONENT PARTS OF REMINGTON RIFLES.

## No. 3.

| No. | | |
|---|---|---|
| 1 | Barrel for model A or B Match | $15 00 |
| 2 | Barrel, 24 to 30 inch, finished | 10 00 |
| 3 | Breech-block | 1 00 |
| 4 | Butt Plate, Swiss | 2 50 |
| 5 | Extractor | 30 |
| 6 | Extractor Spring | 20 |
| 7 | Firing Pin | 20 |
| 8 | Firing Pin Spring | 05 |
| 9 | Frame | 4 00 |
| 10 | Guard | 1 50 |
| 11 | Hammer | 1 00 |
| 12 | Hammer, with fly | 1 25 |
| 13 | Lever | 1 50 |
| 14 | Lever Spring | .40 |
| 15 | Mainspring | .40 |
| 16 | Rocker | .75 |
| 17 | Roller | .10 |
| 18 | Roller Pin | .05 |
| 19 | Screws | .05 |
| 20 | Stock, pistol grip, checkered | 4 00 |
| 21 | Stock, tip | 1 00 |
| 22 | Stock, tip, checkered | 2 50 |
| 23 | Swivels, Per pair, | 1 50 |
| 24 | Trigger | .40 |
| 25 | Trigger, double | 3 50 |
| 26 | Trigger Pin | .05 |
| 27 | Trigger Spring | .15 |
| | Checkering Grip and Fore-end | $3.50 to 5.00 |
| | Fancy Walnut Stock and Fore-end | $5 00 to 10.00 |
| | Swiss Butt-plate, nickel-plated | 2 50 |
| | Nickel-plating Rifle | 4 00 |
| | Rubber Butt-plate, rifle or shotgun | 2 00 |
| | Shotgun Butt, metal heel plate | 1 50 |
| | Leaving off rear sight slot, or changing position of sight | 2.00 |
| | Extra length of barrel Per inch, | 50 |
| | Blank piece to fill rear sight slot | 25 |
| | Swivels Per pair, | 1 50 |
| | Swivels and Sling Strap | $2 00 |
| | Special Length or Drop of Stock | 5 00 |
| | Hand-made stock, plain rifle | 5.00 |
| | Cheek piece on fancy stocks | 2 50 |




| | | | |
|---|---|---|---|
| Double Set Triggers, in No. 3 rifle | $3 50 | Re-boring, rifling, and chambering or changing caliber | $6 00 |
| Re-sighting Rifle | 1 50 | For rifles weighing over list weights an extra charge will be made per pound, of | 1.00 |
| Re-sighting Rifle and Targeting | 2 00 | | |

## No. 4.

| No. | | Each. |
|---|---|---|
| 50 | Barrel | $4 00 |
| 51 | Breech-block | 75 |
| 52 | Breech-block Screw | .10 |
| 53 | Butt Plate | 50 |
| 54 | Butt Plate Screw | .10 |
| 55 | Butt Stock | 1.25 |
| 56 | Dummy Screw | .05 |
| 57 | Escutcheon Head | .10 |
| 58 | Escutcheon Nut | .10 |
| 59 | Extractor | .50 |
| 60 | Extractor Pin | .05 |
| 61 | Firing Pin | .20 |
| 62 | Forearm | 1.00 |
| 63 | Forearm Screw | .05 |
| 64 | Frame | 3.50 |
| 65 | Hammer | .60 |
| 66 | Hammer Roll | .05 |
| 67 | Hammer Roll Pin | .05 |
| 68 | Hammer Screw | .10 |
| 69 | Locking Pin | .05 |
| 70 | Mainspring | .40 |
| 71 | Mainspring Screw | $0 05 |
| 72 | Firing Screw | 10 |
| 73 | Trigger | 50 |
| 74 | Trigger, block and extractor spring | .25 |
| 75 | Trigger Pin | .05 |
| 76 | Trigger Spring Screw | 05 |
| 77 | Wiping Rod | 15 |
| | Nickel-plating Rifle | 4.00 |
| | Leaving off rear sight slot or changing position of sight | 2 00 |
| 80 | Blank Piece to fill rear sight slot | .25 |
| | Re-sighting Rifle | 1 50 |
| | Re-sighting Rifle and Targeting | 2.00 |

# COMPONENT PARTS OF RIFLES.

## EXTRAS AND PARTS FOR REMINGTON, No. 6.

| No. | Each. |
|---|---|
| 1—Barrel and stud (or lug) no sights | $2 50 |
| 2—Front Sight | .20 |
| 3—Rear Sight | .25 |
| 4—Frame, comp. with guard, etc. (riveted together) | 1.00 |
| 5—Breech-block (only) | .50 |
| 6—Breech-block (thumb piece) | .15 |
| 7—Hammer | .35 |
| 8—Butt Plate | .35 |
| 9—Trigger | $0 30 |
| 10—Thumb Screw | 20 |
| 11—Firing Pin | .15 |
| 12—Mainspring Screw | .10 |
| 13—Breech-block Pivot or Stud | 10 |
| 14—Breech-block Coil Spring | 05 |
| 15—Firing Pin Spring | 05 |
| 16—Tip Screw | 10 |
| 17—Tip Escutcheon | 10 |
| 18—Main Spring | $0 30 |
| 19—Sear Spring | 20 |
| 20—Extractor | 20 |
| 21—Butt Stock (only) | 1.00 |
| 22—Tip Stock and Escutcheon | .50 |
| 23—Butt Plate Screws (2) | .10 |
| 24—Stock Bolt | .15 |
| 25—Pins (5) | .05 |
| 26—Wiping Rod | .15 |

## STEVENS IDEAL.

| No. | Each. |
|---|---|
| 1—Frame | $7.00 |
| 2—Breech-block | 1.00 |
| 3—Firing Pin | .30 |
| 4—Firing Pin Screw | .05 |
| 5—Lever (plain) | 1.50 |
| 5A—Lever (plain), set lock | 1.50 |
| 5B—Lever (loop) | 2.50 |
| 5C—Lever (Schuetzen) | 5.50 |
| 5D—Lever (Schuetzen special, No. 54) | 5.50 |
| 6—Hammer | .70 |
| 6A—Hammer, with set screw | 1.00 |
| 6B—Hammer, with stirrup and fly | $1 25 |
| 7—Barrel Screw | 25 |
| 8—Link | 20 |
| 9—Trigger | 50 |
| 10—Extractor | 40 |
| 11—Hammer Screw | .05 |
| 11B—Hammer Screw for Schuetzen Rifle | .05 |
| 12—Sear Screw | .10 |
| 13—Breech-block Screw | .10 |
| 13B—Breech-block Screw for Schuetzen Rifle | $0 10 |
| 14—Lever Screw | 10 |
| 15—Tang Screw | 05 |
| 16—Sear Spring Screw | 05 |
| 17—Main Spring Screw | 05 |
| 18—Main Spring | 20 |
| 19—Sear Spring | 20 |
| 20—Link Pin | 05 |
| 21—Tension Screw, for breech-block | 05 |

## STEVENS FAVORITE.

The Favorite is now made with Central Extractor. In ordering new Barrels, please specify whether for Central or Side Extractor. They will not interchange.

| No. | Each. |
|---|---|
| 1—Frame | $3.00 |
| 2—Breech-block | 1.00 |
| 3—Firing Pin | 60 |
| 4—Firing Pin Pin | 10 |
| 5—Lever | 1 00 |
| 6—Hammer | 1 20 |
| 7—Barrel Screw | .50 |
| 8—Link | 40 |
| 9—Trigger | .70 |
| 10—Extractor | .50 |
| 11—Hammer Screw | 10 |
| 12—Sear Screw | 50 10 |
| 13—Breech-block Screw | .20 |
| 14—Lever Screw | 20 |
| 15—Tang Screw | 10 |
| 16—Sear Spring Screw | 10 |
| 17—Mainspring Screw | 10 |
| 18—Mainspring | 30 |
| 19—Sear Spring | 30 |
| 20—Link Pin | 10 |
| 21—Tension Screw for breech-block | 10 |
| 22—Forearm | $ 0.80 |
| 23—Forearm Escutcheon | .10 |
| 24—Forearm Screw | 10 |
| 25—Barrel (22 inches) | 6 00 |
| 26—Barrel (24 inches) | 10 00 |
| 27—Barrel (26 inches) | 14 00 |
| 28—Butt Stock | 2 40 |
| 29—Butt Plate, steel, $0.25; rubber | 1.00 |
| 30—Butt Plate Screws | .10 |
| 31—Open Front Sight | .50 |
| 32—Open Rear Sight | .50 |

## PHOENIX AND CRACK SHOT.

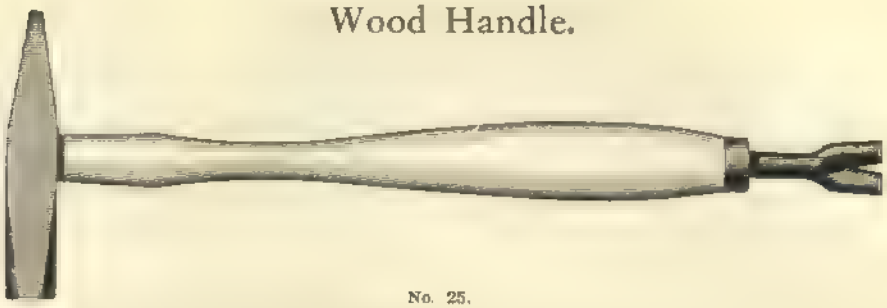
| No. | Each |
|---|---|
| 1—Frame | $2 50 |
| 2—Barrel | 2 50 |
| 3—Barrel Screw | 30 |
| 4—Breech-block | 1 00 |
| 5—Breech-block Screw | 20 |
| 6—Breech-block Bushing | 30 |
| 7—Firing Pin | 30 |
| 8—Firing Pin Pin | 20 |
| 9—Extractor | 50 |
| 10—Extractor Spring | 20 |
| 11—Extractor Spring Thimble | 20 |
| 12—Side Lever | $0 50 |
| 13—Hammer | 1 00 |
| 14—Hammer Screw | 20 |
| 15—Trigger | 50 |
| 16—Trigger Screw | .20 |
| 17—Trigger Spring | .30 |
| 18—Trigger Spring Screw | 20 |
| 19—Tang Screw | 20 |
| 20—Main Spring | 30 |
| 21—Forearm | 60 |
| 22—Forearm Escutcheon | $0 20 |
| 23—Forearm Screw | .20 |
| 24—Butt Stock | 2 00 |
| 25—Butt Plate | .50 |
| 26—Butt Plate Screw | .20 |
| 27—Open Rear Sight | .50 |
| 28—Open Front Sight | .50 |
| 29—Safety Catch | 30 |
| 30—Safety Catch Spring | .20 |
| 31—Safety Catch Screw | .20 |

## QUACKENBUSH SAFETY.

| No | Each. |
|---|---|
| 1—Cocking Screw | $0 20 |
| 2—Stud Nut | .20 |
| 3—Main Spring | .20 |
| 4—Firing Pin | .30 |
| 5—Breech-block, with lock work | 3 00 |
| 6—Breech-block, without lock work | 1.80 |
| 7—Trigger, Sear | 20 |
| 8—Friction Stud | .20 |
| 9—Barrel only, 18 in (plated or blued finish) | 3 50 |
| 10—Barrel only, 22 in. (plated or blued finish) | $4.30 |
| 11—Breech Screw | .20 |
| 12—Extractor | .30 |
| 13—Frame | 2.20 |
| 14—Friction Stud or Sear Springs | 20 |
| 15—Trigger | .30 |
| 16—Stock with butt plate | 2.30 |
| 17—Adjusting Screw | .20 |
| 18—Barrel Stud | .20 |
| 19—Rear Adjustable Sight | $0 60 |
| 20—Front Sight | 20 |
| 21—Sear | 30 |
| 22—Sear, old pattern | .30 |
| 23—Sight Slide | .20 |
| 24—Sight Screw | .20 |
| 25—Rebounder Spring | .20 |
| 26—Rebounder | .20 |
| 27—Rebounder Screw | .20 |
| 28—Junior Safety Stock Screw | .20 |

# Tack Hammers.

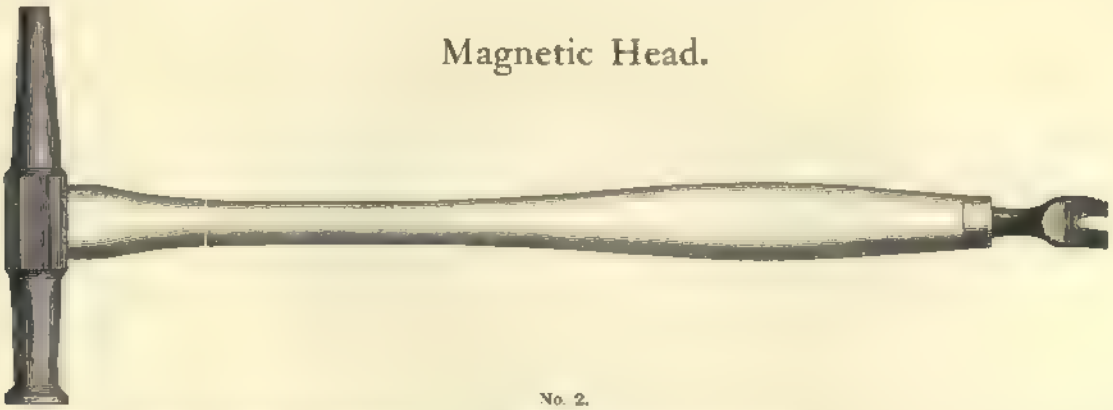
## Wood Handle.



No. 25.

**No. 25**—Maple Handle, Polished, with Claw. Weight per Dozen, 5 lbs. . . Per Dozen, $1 25
One Dozen in a Box.

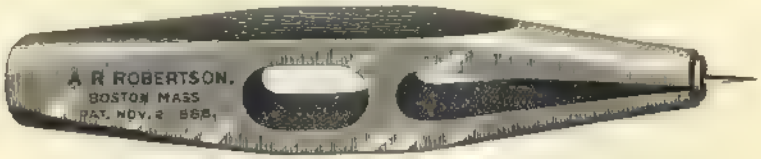
## Magnetic Head.



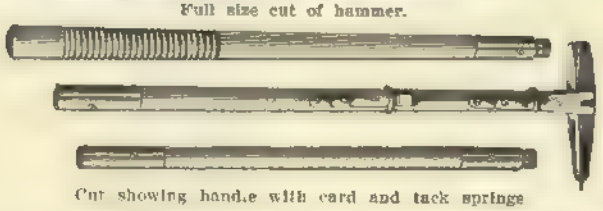
No. 2.

**No. 2**—Magnetic, Hickory Handle, Japanned, with Claw, Weight per Dozen, 6 lbs. . . . . Per Dozen, $2 00
One Dozen in a Box.

## Bill Posters' Horseshoe Magnet Hammer.




Full size cut of hammer.



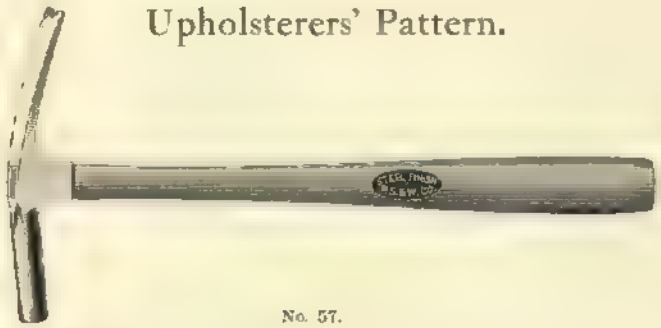
Cut showing handle with card and tack springs

**No. 11**—Magnetic, Weight Each, Without Handle, 5 oz., Complete with Two Section Handle 36 in. Long, with Card and Tack Springs . . . . . Each, $3 50

Two Sets in a Box.

# Tack Hammers.

## Upholsterers' Pattern.



No. 57.

**No. 57**—Polished Nickel Plated, Weight per Dozen, 5 lbs..... .....Per Dozen, $1 50

One Dozen in a Box.

## Ladies' Pride.

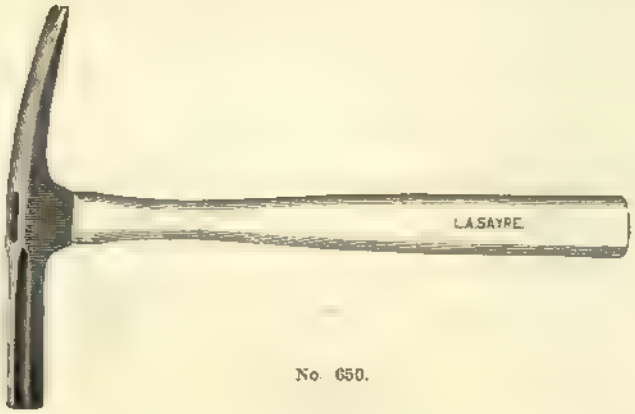
No. 260.

**Adze Eye.**

**No. 260**—Varnished Hickory Handle, Weight per Dozen, 9 lbs..... .....Per Dozen, $2 00

One Dozen in a Box.

# Upholsterers' Hammers.




No. 650.

**Cast Steel.**

**No. 650**—Full Polished, Hickory Handles, Weight per Dozen, 5 lbs. Per Dozen, $3 50

No. 64.

**Cast Steel.**

**No. 64**—Full Polished, Hickory Handles, Weight per Dozen, 8 lbs. Per Dozen, $12 00

Half Dozen in a Box.

# SHINGLING HATCHETS.

RODGERS'.

## RODGERS'.

Back Finish.

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Width of cut, inch | 3½ | 3⅞ | 4⅜ |
| Weight, per dozen, lbs. | 21 | 25 | 30 |
| Per dozen | $8 00 | 8 50 | 9 00 |

## CHANTRELL'S.

Cast Steel. Bronzed.

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Width of cut, inch | 3½ | 3⅞ | 4⅜ |
| Weight, per dozen, lbs. | 17 | 21 | 25 |
| Per dozen | $8 00 | 8 50 | 9 00 |

## CHANTRELL'S.

Cast Iron. Bronzed.

| Nos. | 01C | 02C | 03C |
|---|---|---|---|
| Width of cut, inch | 3 | 3¼ | 3½ |
| Weight, per dozen, lbs. | 11 | 13½ | 15 |
| Per dozen | $4 00 | 4 50 | 5 00 |

## CHANTRELL'S.

Cast Iron. Nickel-Plated

| Nos. | 1C | 2C | 3C |
|---|---|---|---|
| Width of cut, inch | 3 | 3¼ | 3½ |
| Weight, per dozen, lbs. | 9¾ | 13 | 16 |
| Per dozen | $5 00 | 5 50 | 6.00 |

CHANTRELL'S

# CLAW HATCHETS.

PHOENIX.

## PHOENIX.

Gun Metal Finish.

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Width of cut, inch | 3½ | 3⅞ | 4⅜ |
| Weight, per dozen, lbs. | 21 | 27 | 31 |
| Per dozen | $9 00 | 9 50 | 10 00 |

## RUSSELL.

Bronzed

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Width of cut, inch. | 3½ | 3⅞ | 4⅜ |
| Weight, per dozen, lbs. | 21 | 27 | 31 |
| Per dozen | $9 00 | 9 50 | 10.00 |

## HUNT'S.

Bronzed.

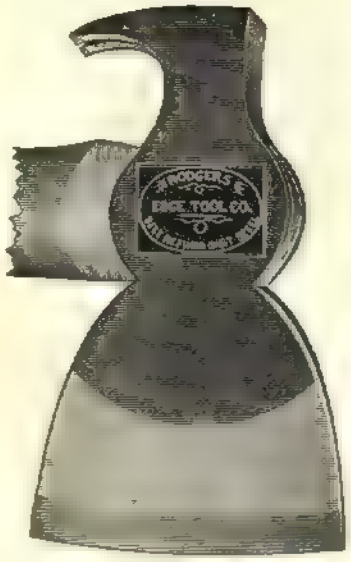
| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Width of cut, inch. | 3½ | 3⅞ | 4⅜ |
| Weight, per dozen, lbs. | 21 | 27 | 31 |
| Per dozen | $9.00 | 9 50 | 10.00 |

RUSSELL.

All above, one-half dozen in box.

# CLAW HATCHETS.

RODGERS.




## RODGERS'.

Black Finish.

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Width of cut, inch. | 3½ | 3⅞ | 4⅜ |
| Weight, per dozen, lbs. | 21 | 29 | 31 |
| Per dozen | $9 00 | 9.50 | 10 00 |

## CHANTRELL'S.

Bronzed.

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Width of cut, inch. | 3⅜ | 3⅞ | 4⅜ |
| Weight, per dozen, lbs | 16½ | 20½ | 28 |
| Per dozen | $9 00 | 9.50 | 10.00 |

CHANTRELL'S.

# HALF HATCHETS.

RODGERS'.

## RODGERS'.

HALF HATCHET.

Black Finish.

| No. | 2 |
|---|---|
| Width of cut, inch | 3¼ |
| Weight, per dozen, lbs | 9 |
| Per dozen | $9.00 |

# FRUIT BOX HATCHETS.

## PACIFIC.

FRUIT BOX HATCHET.

Full Polished.

| | |
|---|---|
| Width of cut, inch | 2⅛ |
| Weight, per dozen, lbs | 17 |
| Per dozen | $24.00 |

## STURDY.

FRUIT BOX HATCHET.

Full Polished.

| | |
|---|---|
| Width of cut, inch | 2⅛ |
| Weight, per dozen, lbs | 17 |
| Per dozen | $15 00 |

All above, one-half dozen in box.

PACIFIC.

PACIFIC HARDWARE & STEEL COMPANY

# INDIAN HATCHETS.

## RODGERS'.

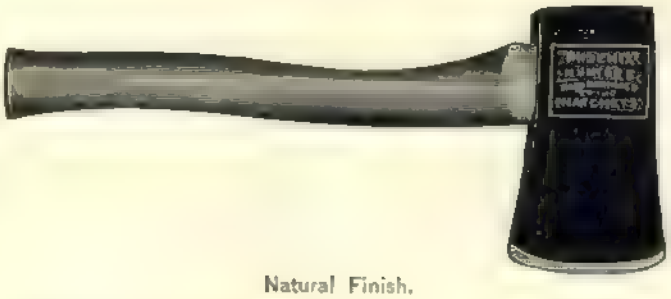
Black Finish

**No. 2**—18-inch handle. Weight, each, 2 lbs.....Per dozen, $12.00

One-half dozen in box.

# HUNTERS' HATCHETS.

## PHOENIX.



Natural Finish.

**No. 0**—14-inch handle. Weight, each, 1½ lbs ..Per dozen, $12.00

## RODGERS'.

Black Finish

**No. 1**—16-inch handle Weight, each, 1½ lbs .. Per dozen, $10 00
**No. 2**—18 " " " 1¾ " .... " 11 00

## RODGERS'.

Black Finish.

Handle, Half Bound Rawhide.

**No. 11**—16-inch handle. Weight, each, 1½ lbs ..Per dozen, $24 00
**No. 12**—18 " " 1¾ " ... " 27.00

Handle, Full Bound Rawhide

**No. 21**—16-inch handle. Weight, each, 1½ lbs...Per dozen, $27.00
**No. 22**—18 " " 1¾ " ... " 30.00

## CHANTRELL'S.

Bronzed.

**No. 1**—16-inch handle Weight, 1¾ lbs .. ...Per dozen, $10 00
**No. 2**—16 " " 2 " ..... " 11 00

Chantrell's one dozen, balance one-half dozen in box.

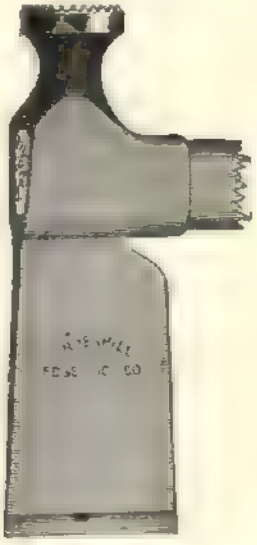
PACIFIC HARDWARE & STEEL COMPANY

# LATHING HATCHETS.

ADAMS'.

No. 3.
Solid Cast Steel, Bronzed.

UNDERHILL'S.

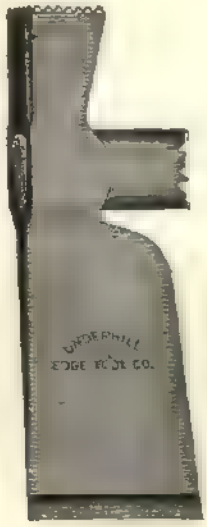


No. 5.
Solid Cast Steel, Full Polished.

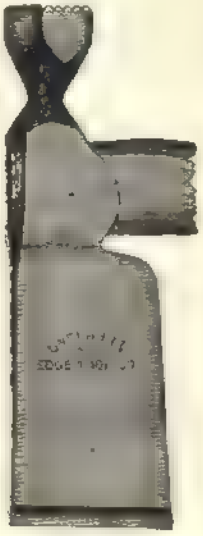
No. 10.
Solid Cast Steel, Full Polished.

| | | | |
|---|---|---|---|
| **No. 3**—Adams'. Haines' pattern. Weight, 15 lbs. | Per dozen, | $11.00 |
| **No. 5**—Underhill. " " Adze-eye, bell poll. Weight, 17½ lbs. | " | 13 50 |
| **No. 10**— " Square head. Weight, 13 lbs. | " | 13.50 |

UNDERHILL'S.



Nos. 20 and 25.
Solid Cast Steel, Full Polished.



No. 30.
Solid Cast Steel, Full Polished.

RODGERS'.

Nos. 1 and 2.
Solid Cast Steel, Black Finish.

| | | |
|---|---|---|
| **No. 20**—Boston Star, square head. Weight, 13¾ lbs. | Per dozen, | $16.50 |
| **No. 25**—Chicago Pattern Underhill Bros., square head. Weigh , 13¼ lbs. | " | 24 00 |
| **No. 30**—Boston Star, turned head. Weight, 12½ lbs. | " | 18 50 |
| **No. 1**—Rodgers . Width of cut, 2½ inches. Weight, 20 lbs. | " | 8 00 |
| **No. 2**— " " " " 2¾ " " 24 " | " | 8.50 |

One-half dozen in box.

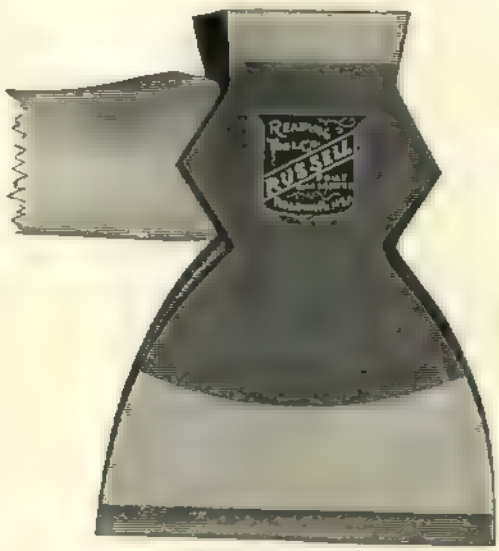
# BROAD HATCHETS.

PHOENIX.

Gun Meta Finish.

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Width of cut, inch | 4 | 4½ | 5 | 5½ | 6 | 6½ |
| Weight, per dozen, lbs | 24 | 28 | 31 | 33 | 47 | 49 |
| Per dozen | $10.50 | 11.50 | 13.00 | 14.50 | 16.50 | 18.00 |

RUSSELL.




Bronzed

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Width of cut, inch | 4 | 4½ | 5 | 5½ | 6 | 6½ |
| Weight, per dozen, lbs. | 24 | 28 | 31 | 33 | 47 | 49 |
| Per dozen | $10.50 | 11.50 | 13.00 | 14.50 | 16.50 | 18.00 |

Single or double bevel, same list.

## HUNT'S.

Bronzed Finish

Same list as above

# SHINGLING HATCHETS.

PHOENIX.

## PHOENIX.

Gun Metal Finish

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Width of cut, inch | 3½ | 3¾ | 4⅛ |
| Weight, per dozen, lbs | 21 | 25 | 30 |
| Per dozen | $8.00 | 8.50 | 9.00 |

## RUSSELL.

Bronzed

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Width of cut, inch | 3½ | 3¾ | 4⅛ |
| Weight, per dozen, lb | 21 | 25 | 30 |
| Per dozen | $8.00 | 8.50 | 9.00 |

## HUNT'S.

Bronzed.

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Width of cut, inch | 3½ | 3¾ | 4⅛ |
| Weight, per dozen, lbs | 21 | 25 | 30 |
| Per dozen | $8.00 | 8.50 | 9.00 |

All above, one-half dozen in box.

RUSSELL.

# SHIP ADZES.

SHIP.

Plain.

## WHITE'S.

Black Finish.

| Cut, inch | 4¾ | 4½ | 4¾ | 5 | 5½ | 6 |
|---|---|---|---|---|---|---|
| Weight, per dozen, lbs. | 30 | 31½ | 32 | 34 | 36 | 4[illegible] |
| Plain .Per dozen, | $30.00 | 33 00 | 33 00 | 33 00 | .. .. | .. |
| Lipped .. .. " ..... | | 36 00 | 36 00 | 36 00 | 39.00 | 39 00 |
| Square Lipped, 6-inch .. ... . .Per dozen, | | | | | $42 00 | |

## HUNT'S.

Black Finish.

| Cut, inch | 4 | 4¼ | 4½ | 4¾ | 5 |
|---|---|---|---|---|---|
| Weight, per dozen, lbs. | 30 | 32 | 34 | 36 | 38 |
| Plain .Per dozen, | $25 00 | 25 00 | 26 00 | 27 00 | 28 00 |
| Lipped .. . .. | | | 30 00 | 31 00 | 32 00 |

## HORTON'S.

Blue Finish

| Cut, inch | 4¼ | 4½ | 4¾ | 5 |
|---|---|---|---|---|
| Weight, per dozen, lbs. | 30½ | 32½ | 34½ | 40½ |
| Plain .. .. .....Per dozen, | $40.60 | 40.60 | 44.80 | 44 80 |
| Lipped .. ..... . " .. .. | | 46 20 | 46 20 | 46 20 |

SHIP.

Lipped.

# HOUSE ADZES.

## HUNT'S HALF HEAD.

Black Finish.

| Cut, inch | 4 | 4¼ | 4½ |
|---|---|---|---|
| Weight, per dozen, lbs. | 40 | 41 | 42 |
| Per dozen | $24.00 | 24.00 | 24 00 |

HOUSE HALF HEAD

## HUNT'S FULL HEAD.

Black Finish.

| Cut, inch | 4 | 4¼ | 4½ |
|---|---|---|---|
| Weight, per dozen, lbs | 43 | 44 | 45 |
| Per dozen | $24 00 | 24 00 | 24 00 |

HOUSE FULL HEAD AND RAILROAD

# RAILROAD ADZES.

## HUNT'S.

Black Finish

| Cut, inch | 5 | 5¼ | 5½ |
|---|---|---|---|
| Weight, per dozen, lbs. | 39 | 40 | 41 |
| Per dozen | $26 00 | 26 00 | 26 00 |

All above, one-half dozen in case.

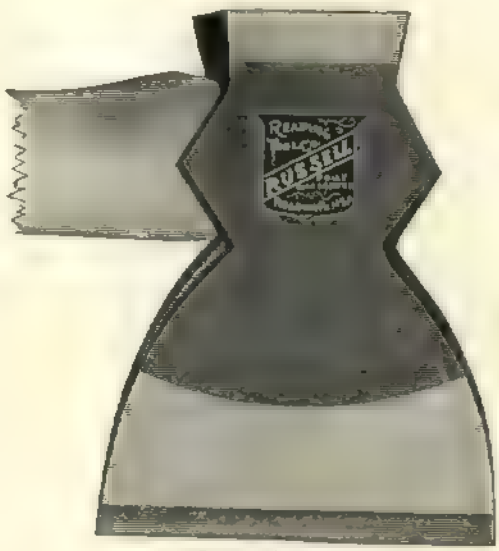
# BROAD HATCHETS.

PHOENIX.

Gun Meta Finish.

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Width of cut, inch | 4 | 4½ | 5 | 5½ | 6 | 6½ |
| Weight, per dozen, lbs | 24 | 28 | 31 | 33 | 47 | 49 |
| Per dozen | $10.50 | 11.50 | 13.00 | 14.50 | 16.50 | 18.00 |

RUSSELL.




Bronzed

| Nos. | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Width of cut, inch | 4 | 4½ | 5 | 5½ | 6 | 6½ |
| Weight, per dozen, lbs. | 24 | 28 | 31 | 33 | 47 | 49 |
| Per dozen | $10.50 | 11.50 | 13.00 | 14.50 | 16.50 | 18.00 |

Single or double bevel, same list.

## HUNT'S.

Bronzed Finish

Same list as above

# SHINGLING HATCHETS.

PHOENIX.

## PHOENIX.

Gun Metal Finish

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Width of cut, inch | 3½ | 3¾ | 4⅛ |
| Weight, per dozen, lbs | 21 | 25 | 30 |
| Per dozen | $8.00 | 8.50 | 9.00 |

## RUSSELL.

Bronzed

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Width of cut, inch | 3½ | 3¾ | 4⅛ |
| Weight, per dozen, lb | 21 | 25 | 30 |
| Per dozen | $8.00 | 8.50 | 9.00 |

## HUNT'S.

Bronzed.

| Nos. | 1 | 2 | 3 |
|---|---|---|---|
| Width of cut, inch | 3½ | 3¾ | 4⅛ |
| Weight, per dozen, lbs | 21 | 25 | 30 |
| Per dozen | $8.00 | 8.50 | 9.00 |

All above, one-half dozen in box.

RUSSELL.

# SHIP ADZES.

SHIP.

Plain.

## WHITE'S.

Black Finish.

| Cut, inch | 4¾ | 4½ | 4¾ | 5 | 5½ | 6 |
|---|---|---|---|---|---|---|
| Weight, per dozen, lbs. | 30 | 31½ | 32 | 34 | 36 | 4[illegible] |
| Plain .Per dozen, | $30.00 | 33 00 | 33 00 | 33 00 | .. .. | .. |
| Lipped .. .. " ..... | | 36 00 | 36 00 | 36 00 | 39.00 | 39 00 |
| Square Lipped, 6-inch .. ... . .Per dozen, | | | | | $42 00 | |

## HUNT'S.

Black Finish.

| Cut, inch | 4 | 4¼ | 4½ | 4¾ | 5 |
|---|---|---|---|---|---|
| Weight, per dozen, lbs. | 30 | 32 | 34 | 36 | 38 |
| Plain .Per dozen, | $25 00 | 25 00 | 26 00 | 27 00 | 28 00 |
| Lipped .. . .. | | | 30 00 | 31 00 | 32 00 |

## HORTON'S.

Blue Finish

| Cut, inch | 4¼ | 4½ | 4¾ | 5 |
|---|---|---|---|---|
| Weight, per dozen, lbs. | 30½ | 32½ | 34½ | 40½ |
| Plain .. .. .....Per dozen, | $40.60 | 40.60 | 44.80 | 44 80 |
| Lipped .. ..... . " .. .. | | 46 20 | 46 20 | 46 20 |

SHIP.

Lipped.

# HOUSE ADZES.

## HUNT'S HALF HEAD.

Black Finish.

| Cut, inch | 4 | 4¼ | 4½ |
|---|---|---|---|
| Weight, per dozen, lbs. | 40 | 41 | 42 |
| Per dozen | $24.00 | 24.00 | 24 00 |

HOUSE HALF HEAD

## HUNT'S FULL HEAD.

Black Finish.

| Cut, inch | 4 | 4¼ | 4½ |
|---|---|---|---|
| Weight, per dozen, lbs | 43 | 44 | 45 |
| Per dozen | $24 00 | 24 00 | 24 00 |

HOUSE FULL HEAD AND RAILROAD

# RAILROAD ADZES.

## HUNT'S.

Black Finish

| Cut, inch | 5 | 5¼ | 5½ |
|---|---|---|---|
| Weight, per dozen, lbs. | 39 | 40 | 41 |
| Per dozen | $26 00 | 26 00 | 26 00 |

All above, one-half dozen in case.

# Gold Pans.

**No. 10**—Pressed Steel, Polished, Weight per Dozen, 24 lbs . . . . . Per Dozen, $7 50
**No. 20** Russia Iron, Weight per Dozen, 24 lbs . . . . . " " 9 00

No. 10. Six Dozen in a Case; No. 20, Packed as Ordered

# Quicksilver or Amalgam Dipper.

No. 756.

**No. 756** Russia Iron, Heavily Riveted, 4½ in. Diameter, Wood Handle. . . . . Per Dozen, $12 00

# Quicksilver or Amalgam Scoops.

No. 745.

No. 746.

**No. 745** Black Iron, 5x4½ in., Wood Handle, . . . . . Per Dozen, $9 00
**No. 746**—Russia Iron, 5x4½ in " " 6 00

# Quicksilver.

| Quicksilver. | | Gas Pipe Tanks Only. | | |
|---|---|---|---|---|
| **Quicksilver**—In Bulk | Per Pound, $1 00 | **Capacity**, lbs. . . . . | 5 | 10 |
| **Quicksilver**—In Tank of 76 lbs. . . | " " 90 | Each . . . . . | $0 50 | 0 75 |

# Miners' Spoon and Scraper.

Spoon and Scraper Combined.

**Length**, 3½ ft. . . . . Per Dozen, $7 50

# Gold Dust Blowers.

Sheet Brass, Polished.

| | | | | |
|---|---|---|---|---|
| **Size**, inch . . . . . | 4½×6 | . . . . . | . . . . . | 9×10 |
| Each . . . . . | $1 00 | . . . . . | . . . . . | 1 25 |

# Mortars and Pestles.

Cast Iron.

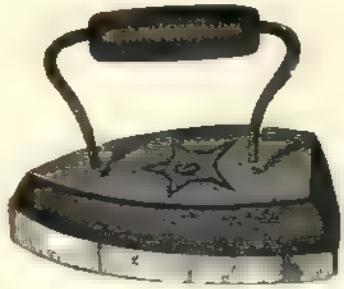
Inside of Mortar and End of Pestle are Ground and Polished.

| | | | | | |
|---|---|---|---|---|---|
| **Capacity**, pints . . . . . | ½ | 1 | 2 | 4 | 8 |
| Weight Each Net, lbs . . . . . | 3¾ | 4¼ | 8¾ | 14 | 20 |
| Each . . . . . | $0 80 | 1 00 | 1 60 | 2 60 | 3 60 |

Packed as Ordered

# SAD IRONS.

## COMMON.



## NEW ENGLAND BUTT.

## POLISHING.

**Common** —Weights, 4, 5, 6, 7, 8 9 and 10 lbs ..... Per pound, $0.08
**New England Butt**— " 6, 7 8 and 9 lbs ..... " .10
**Polishing** — " 4, 5 and 6 lbs ..... " 09

## TROY POLISHER.

## NEW ENGLAND PRESSING.

## TAILORS' GEESE

**Troy Polisher** —Diamond face. Weight, 48 lbs ..... Per dozen, $6.00
**New England Pressing**—Weight, 14, 16 and 18 lbs ..... Per pound, .12
**Tailors' Geese** — " 12, 14, 16, 18, 20, 22, 24 and 26 lbs ..... " 12

## FAMILY CHARCOAL.

No. 4.

## TAILORS' CHARCOAL.

No. 18.

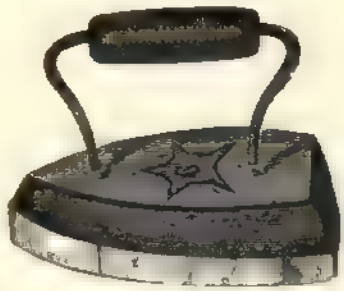
**No. 4**—Family charcoal. Self-heating. Polished. Weight, 78 lbs ..... Per dozen, $15 00
**No. 18**—Tailors' " " " " 222 " ..... " 30 00

No. 4, one dozen in case; balance, loose.

PACIFIC HARDWARE & STEEL COMPANY

# SAD IRONS.

## COMMON.



## NEW ENGLAND BUTT.

## POLISHING.

**Common** —Weights, 4, 5, 6, 7, 8, 9 and 10 lbs.....Per pound, $0.08
**New England Butt**— " 6, 7, 8 and 9 lbs..... " .10
**Polishing** — " 4, 5 and 6 lbs..... " 09

## TROY POLISHER.

## NEW ENGLAND PRESSING.

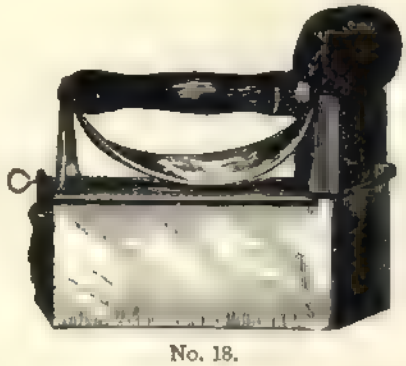
## TAILORS' GEESE

**Troy Polisher** —Diamond face Weight, 48 lbs .....Per dozen, $6.00
**New England Pressing**—Weight, 14, 16 and 18 lbs.. .....Per pound, 12
**Tailors' Geese** — " 12 14, 16, 18, 20, 22, 24 and 26 lbs. 12

## FAMILY CHARCOAL.

No. 4.

## TAILORS' CHARCOAL.

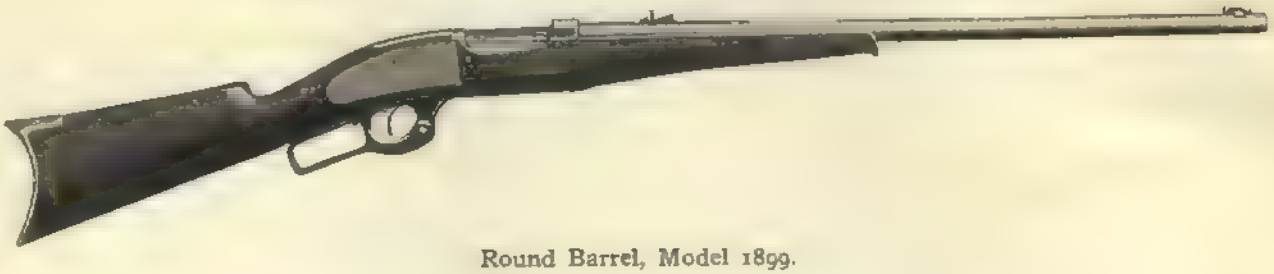


No. 18.

**No. 4**—Family charcoal. Self-heating. Polished. Weight, 78 lbs.....Per dozen, $15 00
**No. 18**—Tailors' " " " " 222 " " 30 00

No. 4, one dozen in case; balance, loose.

# Savage Hammerless Sporting Rifles.



Round Barrel, Model 1899.

**Model 1899**—26 in. Barrel, Six Cartridges, .303 Caliber, Steel Rifle Butt Plate, Weight, 7 lbs., 8 oz. . . . . Each, $20 00

Half Octagon Barrel, Model 1899.

**Model 1899**—26 in. Barrel, Six Cartridges, .303 Caliber, Steel Rifle Butt Plate, Weight, 7 lbs., 12 oz. . . . . Each, $21 50

Full Octagon Barrel, Model 1899.

**Model 1899**—26 in. Barrel, Six Cartridges, .303 Caliber, Steel Rifle Butt Plate, Weight, 8 lbs. . . . Each, $21 50

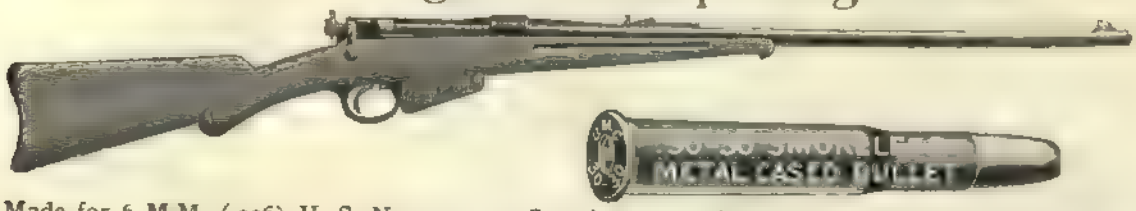
Savage Carbine, Model 1899.

**Model 1899**—20 in. Barrel, Six Cartridges, .303 Caliber, Weight, 7¼ lbs. . . . . Each, $20 00

Savage rifles can be furnished to take the .30-30 smokeless cartridges, if so ordered; also shotgun butt, pistol grip, checkered or plain.

For Component Parts for Savage Rifle, see Page 1094.

# New Remington-Lee Sporting Rifle.

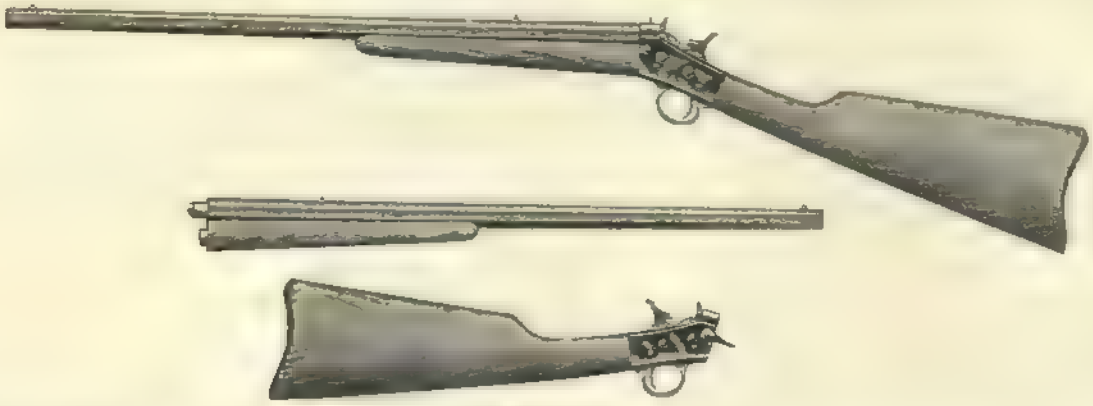



**Made for 6 M.M. (.236) U. S. Navy, .30-30 Sporting, 30.40 U. S. Govt., 7 M M. and 7.65 M M.**

24 in., 26 in. (Standard) or 28 in. Barrel, Round Special Smokeless Steel Barrel, 5 Shots, Weight 6¾ lbs., with Specially Selected Fine Walnut Stock, Half Pistol Grip, Checkered, Open Sporting Front and Rear Sights . . . . . Each, $30 00

# Remington Rifles.

## No. 4 New Model "Take Down," Single Shot.



No. 4

The features which specially commend this Rifle are, the Simplicity and Durability of the Action, Superior Quality of Workmanship and Material, Octagon Tapered Steel Barrel, Carefully Bored and Rifled, Genuine Black Walnut Stock and Forearm, Forged Case Hardened Frame, Parts of Mechanism Forged Steel, Rifle Butt Plate, Automatic Shell Ejector, which throws fired shell from chamber when breech is opened.

22 Caliber, Short and Long, R. F., 22½ in. Barrels, Weight, 4¼ lb. . . . . Each, $ 8 00
22 Caliber, Long Rifle, R. F., 22½ in. Barrels, Weight, 4¼ lbs. . . . . " 8 00
32 Caliber, Short and Long, R. F., 24 in. Barrels, Weight, 4½ lbs . . . . " 8 00

For Component Parts see Page 1095.

## No. 6 New Model "Take Down," Single Shot.

No. 6.

The action is a modified type of the celebrated Remington system. Material and workmanship the best. Decarbonized steel barrel, tapered, 20 inches long, accurately bored and rifled. Case hardened frame. Genuine walnut stock and fore end. Rifle butt plate. Barrel detached from stock by loosening thumb screw.

22 Caliber, 20 in. Barrel, Weight about 3½ lbs. . . . . Each $5 00

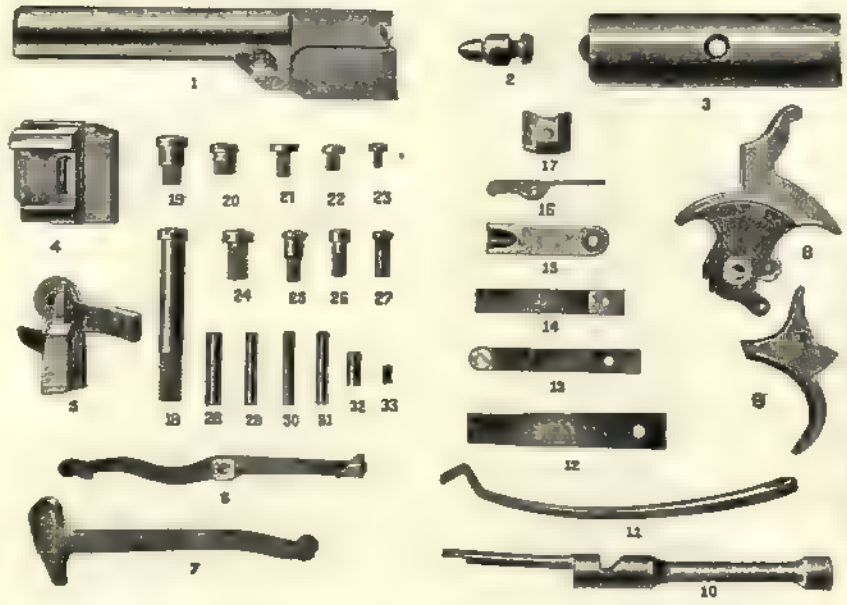
Adapted to the following cartridges: .22 short black, .22 short smokeless, .22 long black, C. B. caps, C. B. caps smokeless, B. B. caps, B. B. caps smokeless.

For Component Parts, see Page 1096.

# COMPONENT PARTS OF COLT'S LIGHTNING MAGAZINE RIFLES.

## 22 CALIBER.

| No. | | |
|---|---|---|
| 1 | Bolt | $ 0 50 |
| 2 | Follower | .36 |
| 3 | Top Cover | 1 18 |
| 4 | Carrier | 2 70 |
| 5 | Locking Brace | 2 20 |
| 6 | Automatic Stop | 1 36 |
| 7 | Carrier Lever | 1 50 |
| 8 | Hammer, complete | 1 30 |
| 9 | Trigger | .80 |
| 10 | Firing Pin | 1 50 |
| 11 | Main Spring | 72 |
| 12 | Trigger Spring | .32 |
| 13 | Loading Block Spring | 60 |
| 14 | Automatic Stop Spring | 32 |
| 15 | Loading Spring | .50 |
| 16 | Extractor | .50 |
| 17 | Magazine Stud | .64 |
| 18 | Tang Screw | .20 |
| 19 | Handle Screw | .16 |
| 20 | Side Screw | .10 |
| 21 | Trigger Spring Screw | .10 |
| 22 | Loading Spring Screw | 10 |
| 23 | Stop Spring Screw | .10 |
| 24 | Main Spring Screw | .10 |
| 25 | Top Cover Screw | .10 |
| 26 | Magazine Stud Screw | .10 |
| 27 | Ejector Screw | 10 |
| 28 | Hammer Pin | 08 |
| 29 | Trigger Pin | .08 |
| 30 | Automatic Stop Pin | 08 |
| 31 | Carrier Lever Pin | 08 |
| 32 | Brace Pin | 08 |
| 33 | Extractor Pin | 08 |
| 34 | Band Pin | 08 |
| 35 | Receiver | 15.00 |
| 36 | Hammer Roll | .08 |
| 37 | Hammer Roll Pin | .08 |



| No. | | |
|---|---|---|
| 38 | Hammer Safety Pin | $ 0 08 |
| 39 | Slide | 2 56 |
| 40 | Barrel, round | 12 50 |
| 41 | Barrel, octagon | 16 00 |
| 42 | Barrel, half-octagon | 16 00 |
| 43 | Magazine Tube | 3 00 |
| 44 | Magazine Tube, short section | 1 20 |
| 45 | Magazine Tube Plug | 30 |
| 46 | Magazine Band | 80 |
| 47 | Magazine Spring | 24 |
| 48 | Loading Block | 2.70 |

| No. | | |
|---|---|---|
| 49 | Butt Plate (rubber) | $ 1 50 |
| 50 | Butt Plate Screw | 16 |
| 51 | Butt Stock | 4 32 |
| 52 | Handle, plain | 2 00 |
| 53 | Handle, checkered | 3 00 |
| 54 | Trigger Plate | 2 00 |
| 55 | Extractor Spring | 08 |
| 56 | Top Cover Bushing | 10 |
| 57 | Wiping Rod | .40 |
| 58 | Firing Pin Lever | .36 |
| 59 | Frame | 12.00 |

## 32, 38 AND 44 CALIBERS.

| No. | | |
|---|---|---|
| 1 | Bolt | $3.36 |
| 2 | Locking Brace | 1 00 |
| 3 | Hammer, complete | 1 84 |
| 4 | Trigger | .80 |
| 5 | Magazine Stop | 1 04 |
| 6 | Main Spring | .72 |
| 7 | Trigger Spring | 32 |
| 8 | Magazine Stop Spring | 24 |
| 9 | Loading Trap Spring | .24 |
| 10 | Carrier | 1.04 |
| 11 | Firing Pin | .88 |
| 12 | Loading Trap | 1.36 |
| 13 | Top Cover | 1.32 |
| 14 | Magazine Stud | .64 |
| 15 | Left Ejector | .48 |
| 16 | Right Ejector | .48 |
| 17 | Extractor | .56 |
| 18 | Firing Pin Lever | .72 |
| 19 | Tang Screw | .20 |
| 20 | Mainspring Screw | 10 |
| 21 | Side Screw | .10 |
| 22 | Trigger Spring Screw | 12 |
| 23 | Top Cover Screw | .10 |

| No. | | |
|---|---|---|
| 24 | Carrier Screw | $ 0.10 |
| 25 | Carbine Tube Screw | .10 |
| 26 | Stop Spring Screw | 10 |
| 27 | Loading Trap Spring Screw | 10 |
| 28 | Loading Trap Stop Screw | 10 |
| 29 | Handle Screw | 10 |
| 30 | Ejector Screw | 10 |
| 31 | Rifle Tube Screw | 10 |
| 32 | Carbine Band Screw | 10 |
| 33 | Firing Pin Lever Pin | 08 |
| 34 | Extractor Pin | 08 |
| 35 | Trigger and Stop Pin | 08 |
| 36 | Locking Brace Pin | 08 |
| 37 | Hammer Pin | 08 |
| 38 | Receiver | 14 00 |
| 39 | Hammer Roll | 08 |
| 40 | Hammer Roll Pin | 08 |
| 41 | Hammer Safety Pin | 08 |
| 42 | Slide | 4 00 |
| 43 | Barrel, carbine | 11 00 |
| 44 | Barrel, rifle, round | 12 50 |
| 45 | Barrel, rifle, octagon | 16 00 |
| 46 | Barrel, rifle, half-octagon | 16.00 |

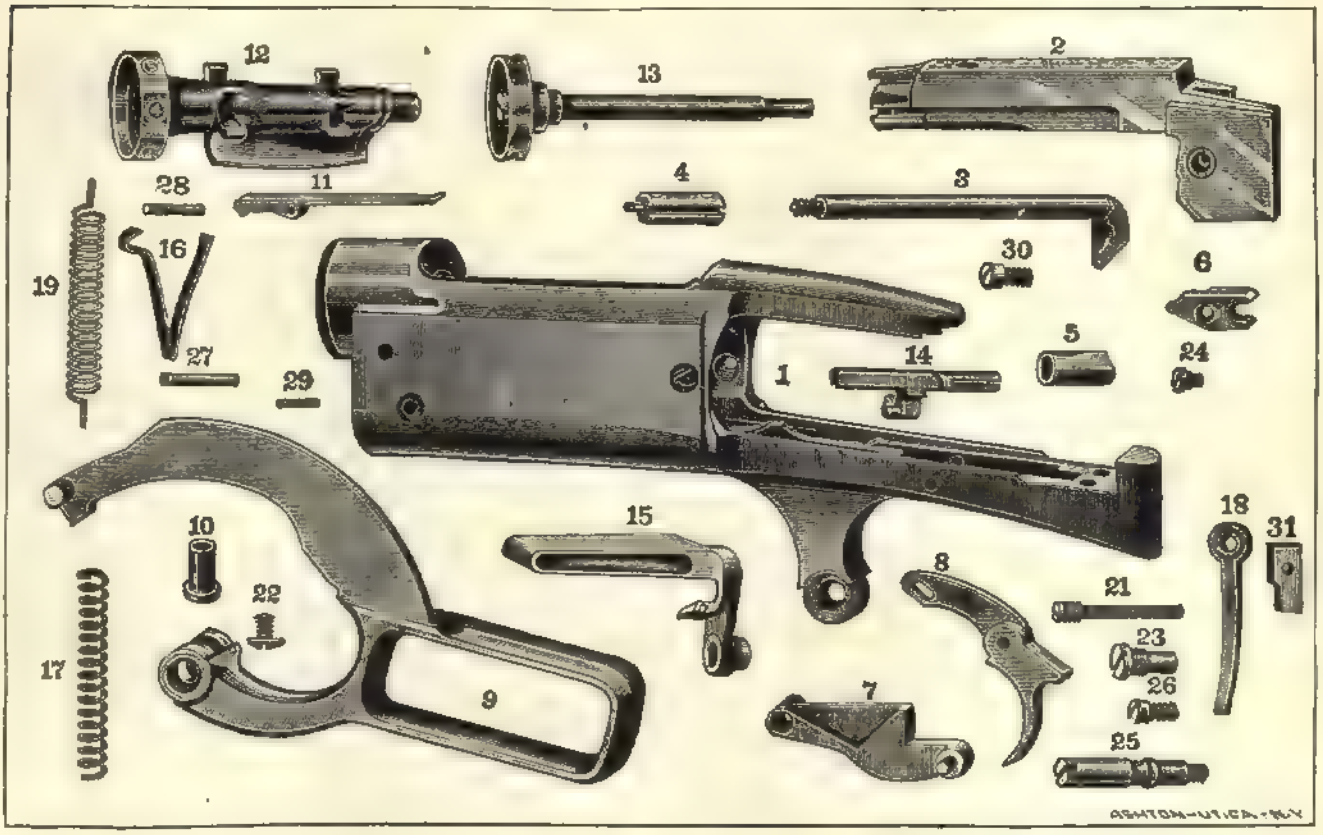
| No. | | |
|---|---|---|
| 47 | Magazine Tube | $3.00 |
| 48 | Magazine Plug | 48 |
| 49 | Magazine Spring | .32 |
| 50 | Follower | .40 |
| 51 | Butt Plate | 1.60 |
| 52 | Trigger Plate | 6 00 |
| 53 | Butt Stock | 4.32 |
| 54 | Handle | 3.00 |
| 55 | Butt Plate Screw | .16 |
| 56 | Carbine Band | .64 |
| 57 | Sling Ring and Staple | .96 |
| 58 | Set Trigger and Hammer, complete | 6.00 |
| 59 | Set Lock Hammer | 2 20 |
| 60 | Set Lock Hammer Fly | .60 |
| 61 | Set Lock Sear | .70 |
| 62 | Set Lock Trigger | 1.30 |
| 63 | Set Lock Spring, complete | .80 |
| 64 | Set Lock Spring Screw | .10 |
| 65 | Set Lock Adjusting Screw | .30 |
| 66 | Wooden Wiping Rod | .40 |
| 67 | Stop Slide | .56 |
| 68 | Stop Fly | .32 |
| 69 | Bolt Fly | .16 |

PACIFIC HARDWARE & STEEL COMPANY

# COMPONENT PARTS OF SAVAGE HAMMERLESS REPEATING RIFLE.

303 CALIBER. MODEL 1899.

PACIFIC HARDWARE & STEEL COMPANY



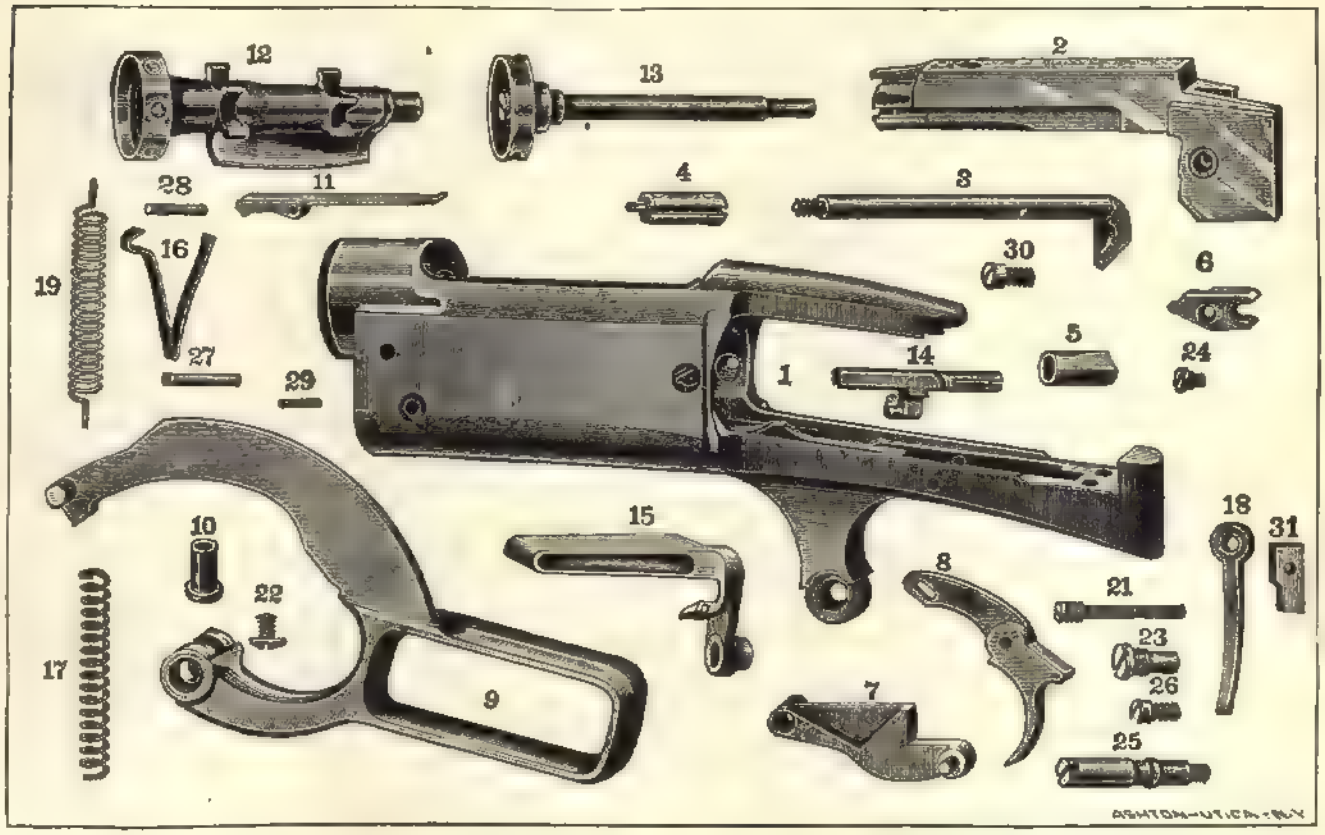

| No. | | | No. | | | No. | |
|---|---|---|---|---|---|---|---|
| 1 | Receiver | $7 00 | 17 | Mainspring | $ 0 30 | 32B | Barrel (half octagon) $10.50 |
| 2 | Breech Bolt | 3.00 | 18 | Trigger Spring | .20 | 33 | Butt Stock 2 00 |
| 3 | Hammer | .60 | 19 | Magazine Spring | .30 | 34 | Butt Stock Screw .25 |
| 4 | Firing Pin | .40 | 20 | Barrel Stud | .25 | 35 | Butt Plate (rifle) .80 |
| 5 | Hammer Bushing | .15 | 21 | Magazine Spindle Screw | .15 | 35A | Butt Plate (shotgun) .30 |
| 6 | Hammer Retractor | .30 | 22 | Finger Lever Bushing Screw | .15 | 36 | Butt Plate Screws (2) Each, 05 |
| 7 | Sear | .40 | 23 | Hammer Retractor Screw | .10 | 37 | Forearm 1 00 |
| 8 | Trigger | .40 | 24 | Hammer Bushing Screw | .10 | 38 | Forearm Screw 05 |
| 9 | Finger Lever | 1.75 | 25 | Sear Screw | .30 | 39 | Forearm Washer 10 |
| 10 | Finger Lever Bushing | .25 | 26 | Trigger Spring Screw | .05 | 40 | Hammer Indicator 40 |
| 11 | Extractor | .30 | 27 | Trigger Pin | .05 | 41 | Hammer Indicator Washer 10 |
| 12 | Magazine Carrier | 1.00 | 28 | Extractor Pin | .05 | 42 | Hammer Indicator Pin 05 |
| 13 | Magazine Spindle | .50 | 29 | Firing Pin, Securing Pin | .05 | 43 | Ctg. Stop (small projecting part on top of Breech Bolt) 25 |
| 14 | Trigger and Lever Lock | .50 | 30 | Bolt Stop Screw | .05 | 44 | Hammer Retractor Spring, for model 1895 .20 |
| 15 | Automatic Cut-off | 2.00 | 31 | Bolt Stop | .10 | | |
| 16 | Automatic Cut-off Spring | .25 | 32 | Barrel (round) | 9.00 | | |
| | | | 32A | Barrel (octagon) | 10.50 | | |

In ordering give the name and number of the part.

NOTE—In ordering butt stocks or forearms, mention if octagon or round forearm, and if rifle, carbine or shotgun butt is required.

# COMPONENT PARTS OF SAVAGE HAMMERLESS REPEATING RIFLE.

303 CALIBER. MODEL 1899.




| No. | | $ |
|---|---|---|
| 1 | Receiver | 7.00 |
| 2 | Breech Bolt | 3.00 |
| 3 | Hammer | .60 |
| 4 | Firing Pin | .40 |
| 5 | Hammer Bushing | .15 |
| 6 | Hammer Retractor | .30 |
| 7 | Sear | .40 |
| 8 | Trigger | .40 |
| 9 | Finger Lever | 1.75 |
| 10 | Finger Lever Bushing | .25 |
| 11 | Extractor | .30 |
| 12 | Magazine Carrier | 1.00 |
| 13 | Magazine Spindle | .50 |
| 14 | Trigger and Lever Lock | .50 |
| 15 | Automatic Cut-off | 2.00 |
| 16 | Automatic Cut-off Spring | .25 |

| No. | | $ |
|---|---|---|
| 17 | Mainspring | 0.30 |
| 18 | Trigger Spring | .20 |
| 19 | Magazine Spring | .30 |
| 20 | Barrel Stud | .25 |
| 21 | Magazine Spindle Screw | .15 |
| 22 | Finger Lever Bushing Screw | .15 |
| 23 | Hammer Retractor Screw | .10 |
| 24 | Hammer Bushing Screw | .10 |
| 25 | Sear Screw | .30 |
| 26 | Trigger Spring Screw | .05 |
| 27 | Trigger Pin | .05 |
| 28 | Extractor Pin | .05 |
| 29 | Firing Pin, Securing Pin | .05 |
| 30 | Bolt Stop Screw | .05 |
| 31 | Bolt Stop | .10 |
| 32 | Barrel (round) | 9.00 |
| 32A | Barrel (octagon) | 10.50 |

| No. | | $ |
|---|---|---|
| 32B | Barrel (half octagon) | 10 50 |
| 33 | Butt Stock | 2 00 |
| 34 | Butt Stock Screw | 25 |
| 35 | Butt Plate (rifle) | 80 |
| 35A | Butt Plate (shotgun) | 30 |
| 36 | Butt Plate Screws (2) Each, | 05 |
| 37 | Forearm | 1 00 |
| 38 | Forearm Screw | 05 |
| 39 | Forearm Washer | 10 |
| 40 | Hammer Indicator | .40 |
| 41 | Hammer Indicator Washer | 10 |
| 42 | Hammer Indicator Pin | 05 |
| 43 | Ctg. Stop (small projecting part on top of Breech Bolt) | 25 |
| 44 | Hammer Retractor Spring, for model 1895 | 20 |

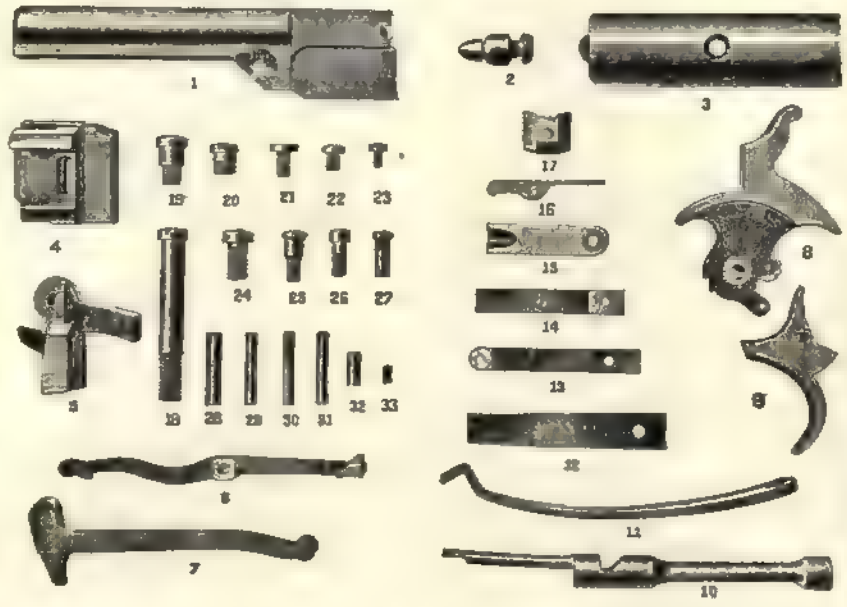
In ordering give the name and number of the part.

NOTE—In ordering butt stocks or forearms, mention if octagon or round forearm, and if rifle, carbine or shotgun butt is required.

# COMPONENT PARTS OF COLT'S LIGHTNING MAGAZINE RIFLES.

## 22 CALIBER.

| No. | | |
|---|---|---|
| 1 | Bolt | $ 0 50 |
| 2 | Follower | .36 |
| 3 | Top Cover | 1 16 |
| 4 | Carrier | 2 70 |
| 5 | Locking Brace | 2 20 |
| 6 | Automatic Stop | 1 36 |
| 7 | Carrier Lever | 1.50 |
| 8 | Hammer, complete | 1 90 |
| 9 | Trigger | 80 |
| 10 | Firing Pin | 1 50 |
| 11 | Main Spring | 72 |
| 12 | Trigger Spring | .32 |
| 13 | Loading Block Spring | 60 |
| 14 | Automatic Stop Spring | 32 |
| 15 | Loading Spring | 50 |
| 16 | Extractor | 50 |
| 17 | Magazine Stud | 64 |
| 18 | Tang Screw | 20 |
| 19 | Handle Screw | 16 |
| 20 | Side Screw | 10 |
| 21 | Trigger Spring Screw | .10 |
| 22 | Loading Spring Screw | .10 |
| 23 | Stop Spring Screw | .10 |
| 24 | Main Spring Screw | .10 |
| 25 | Top Cover Screw | 10 |
| 26 | Magazine Stud Screw | .10 |
| 27 | Ejector Screw | 10 |
| 28 | Hammer Pin | 08 |
| 29 | Trigger Pin | 08 |
| 30 | Automatic Stop Pin | .08 |
| 31 | Carrier Lever Pin | .08 |
| 32 | Brace Pin | .08 |
| 33 | Extractor Pin | 08 |
| 34 | Band Pin | .08 |
| 35 | Receiver | 15.00 |
| 36 | Hammer Roll | .08 |
| 37 | Hammer Roll Pin | .08 |



| No. | | |
|---|---|---|
| 38 | Hammer Safety Pin | $ 0 08 |
| 39 | Slide | 2 56 |
| 40 | Barrel, round | 12 50 |
| 41 | Barrel, octagon | 16 00 |
| 42 | Barrel, half-octagon | 16 00 |
| 43 | Magazine Tube | 3 00 |
| 44 | Magazine Tube, short section | 1 20 |
| 45 | Magazine Tube Plug | 30 |
| 46 | Magazine Band | 80 |
| 47 | Magazine Spring | 24 |
| 48 | Loading Block | 2.70 |

| No. | | |
|---|---|---|
| 49 | Butt Plate (rubber) | $ 1.50 |
| 50 | Butt Plate Screw | .16 |
| 51 | Butt Stock | 4.32 |
| 52 | Handle, plain | 2.00 |
| 53 | Handle, checkered | 3.00 |
| 54 | Trigger Plate | 9.00 |
| 55 | Extractor Spring | 08 |
| 56 | Top Cover Bushing | 10 |
| 57 | Wiping Rod | .40 |
| 58 | Firing Pin Lever | .36 |
| 59 | Frame | 12.00 |

## 32, 38 AND 44 CALIBERS.

| No. | | |
|---|---|---|
| 1 | Bolt | $3.36 |
| 2 | Locking Brace | 1 00 |
| 3 | Hammer, complete | 1 84 |
| 4 | Trigger | .80 |
| 5 | Magazine Stop | 1 04 |
| 6 | Main Spring | .72 |
| 7 | Trigger Spring | 32 |
| 8 | Magazine Stop Spring | 24 |
| 9 | Loading Trap Spring | 24 |
| 10 | Carrier | 1.04 |
| 11 | Firing Pin | 88 |
| 12 | Loading Trap | 1 36 |
| 13 | Top Cover | 1.32 |
| 14 | Magazine Stud | .64 |
| 15 | Left Ejector | .48 |
| 16 | Right Ejector | .48 |
| 17 | Extractor | .56 |
| 18 | Firing Pin Lever | .72 |
| 19 | Tang Screw | .20 |
| 20 | Mainspring Screw | 10 |
| 21 | Side Screw | .10 |
| 22 | Trigger Spring Screw | 12 |
| 23 | Top Cover Screw | .10 |
| 24 | Carrier Screw | $ 0 10 |
| 25 | Carbine Tube Screw | .10 |
| 26 | Stop Spring Screw | 10 |
| 27 | Loading Trap Spring Screw | 10 |
| 28 | Loading Trap Stop Screw | 10 |
| 29 | Handle Screw | 10 |
| 30 | Ejector Screw | 10 |
| 31 | Rifle Tube Screw | 10 |
| 32 | Carbine Band Screw | 10 |
| 33 | Firing Pin Lever Pin | 08 |
| 34 | Extractor Pin | 08 |
| 35 | Trigger and Stop Pin | 08 |
| 36 | Locking Brace Pin | 08 |
| 37 | Hammer Pin | 08 |
| 38 | Receiver | 14 00 |
| 39 | Hammer Roll | 08 |
| 40 | Hammer Roll Pin | 08 |
| 41 | Hammer Safety Pin | 08 |
| 42 | Slide | 4 00 |
| 43 | Barrel, carbine | 11 00 |
| 44 | Barrel, rifle, round | 12 50 |
| 45 | Barrel, rifle, octagon | 16 00 |
| 46 | Barrel, rifle, half-octagon | 16.00 |

| No. | | |
|---|---|---|
| 47 | Magazine Tube | $3.00 |
| 48 | Magazine Plug | 48 |
| 49 | Magazine Spring | .32 |
| 50 | Follower | 40 |
| 51 | Butt Plate | 1 60 |
| 52 | Trigger Plate | 6 00 |
| 53 | Butt Stock | 4.32 |
| 54 | Handle | 3.00 |
| 55 | Butt Plate Screw | .16 |
| 56 | Carbine Band | .64 |
| 57 | Sling Ring and Staple | .96 |
| 58 | Set Trigger and Hammer, complete | 6 00 |
| 59 | Set Lock Hammer | 2 20 |
| 60 | Set Lock Hammer Fly | .60 |
| 61 | Set Lock Scar | 70 |
| 62 | Set Lock Trigger | 1.30 |
| 63 | Set Lock Spring, complete | .80 |
| 64 | Set Lock Spring Screw | .10 |
| 65 | Set Lock Adjusting Screw | .30 |
| 66 | Wooden Wiping Rod | .40 |
| 67 | Stop Slide | .56 |
| 68 | Stop Fly | .32 |
| 69 | Bolt Fly | .16 |

PACIFIC HARDWARE & STEEL COMPANY

# Sad Irons.

## Polished.

**Silver Polished, Round or Sharp Points.**

5 to 10 lbs . . . . . Per Pound, $0 06

Packed as Ordered.

## Tailors' Geese.

**Polished Face.**

12, 14, 16, 18, 22 and 24 lbs .....Per Pound, $0 10

Packed as Ordered

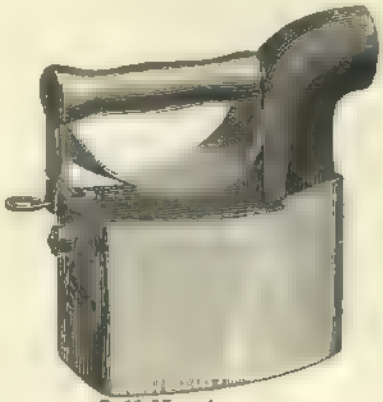
## Polishing Iron.

**Perforated Face.**

**Troy**—Wt. per Doz. Net, 38 lbs Per Dozen, $0 00

Packed as Ordered.

## Charcoal.

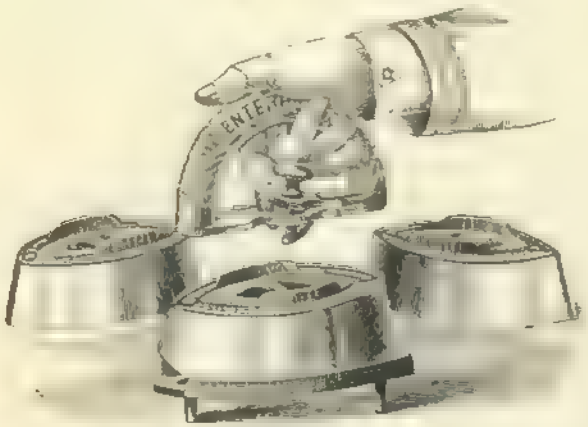


**Self-Heating.**

**No. 4** Red Handle, Wt Each, 7 lbs , Per Dozen, $12 00

One Dozen in a Case

## Mrs. Potts'.



Nos. 50 and 55.

**Set Comprises Handle, Stand and One Iron Each Nos. 1, 2 and 3.**

**No. 50**—Nickel Plated. . . . Per Set, $1 75

**No. 55**—Plain Polished..... " " 1 50

Six Sets in a Case Weight per Dozen Sets 220 lbs

## Solid Potts.

No. 50

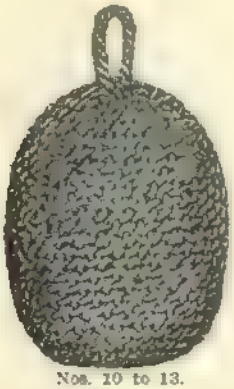
**No. 50** Nickel plated Per Set, $2 00

No Screws to Become Loose. No Covers to Become Broken.

Six Sets in a Case Weight per Dozen Sets 260 Lbs

# Cork Fenders.

## Netted.

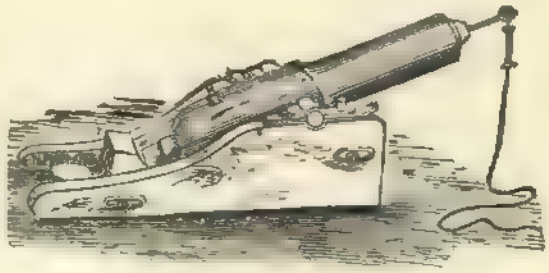


Nos. 10 to 13.

Russia Hemp Rope, Cork Filled.

| Nos. | 10 | 11 | 12 | 13 |
|---|---|---|---|---|
| Length, inch | 16 | 18 | 20 | 22 |
| Weight Each Net, lbs | 10 | 13 | 15½ | 23 |
| Each | $5 00 | 5 50 | 6 00 | 7 00 |

# Lyle Gun.



Bronze Metal.

**Lyle Gun**—Complete with Three Projectiles, Three Lines, Primers, Rammer and Elevation Block, Weight Each Net, 150 lbs.....Each, $150 00

# Oars.

## Plain.

Ash.

| Length, feet | 6 | 7 | 8 | 9 | 10 | 12 | 14 | 16 | 18 |
|---|---|---|---|---|---|---|---|---|---|
| Weight per Pair Net, lbs | 6½ | 8 | 10 | 12½ | 14 | 23 | 28 | 38 | 45 |
| Per Foot | $0 10 | 0 10 | 0 10 | 0 10 | 0 10 | 0 10 | 0 13 | 0 13 | 0 13 |

## Copper Tipped.

Ash.

| Length, feet | 6 | 6½ | 7 | 7½ | 8 | 8½ | 9 | 10 | 11 | 12 | 14 | 16 | 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Weight per Pair Net, lbs | 6½ | 7 | 8 | 9 | 10 | 11¼ | 12½ | 14 | 15 | 23 | 28 | 38 | 45 |
| Per Foot | $0 12 | 0 12 | 0 12 | 0 12 | 0 12 | 0 12 | 0 12 | 0 12 | 0 12 | 0 12 | 0 15 | 0 15 | 0 15 |

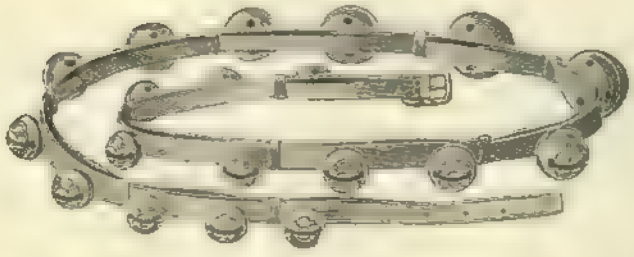
## Spoon.

Spruce, Leathered, Copper Tipped.

| Length, feet | 6½ | 7 | 7½ | 8 | 8½ |
|---|---|---|---|---|---|
| Weight per Pair Net, lbs | 5 | 5¼ | 5½ | 6½ | 8 |
| Per Foot | $0 30 | 0 30 | 0 30 | 0 30 | 0 30 |

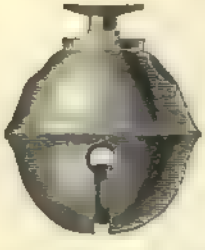
# Sleigh Bells.

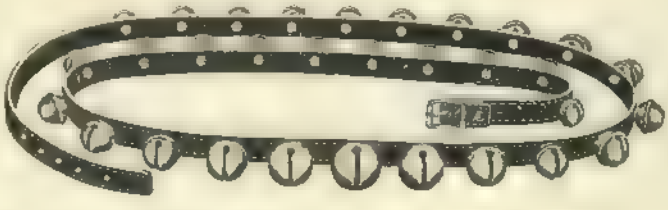
## Body Strap.



**No. 056** 10 Polished Rim Bells, Assorted Sizes, Wire Fastened, Russet Leather Strap. . Per String, $2 70

| Size, Nos | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|
| Quality of Bells | 8 | 6 | 2 | 2 | 1 |





**No. 639** 10 Tinned Rim Bells, Assorted Sizes, Riveted, Black Leather Strap. . . . . Per String, $2 50

| Size, Nos | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| Quantity of Bells | 8 | 2 | 2 | 2 | 2 | 2 | 1 |

**No. 684**—25 Extra Tinned Rim Bells, Assorted Sizes, Riveted, Black Leather Strap. Per String, $3 50

| Size, Nos | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| Quantity of Bells | 10 | 6 | 2 | 2 | 2 | 2 | 1 |

**No. 694**—31 Nickel Plated Rim Bells, Assorted Sizes, Riveted, Black Leather Strap. . . Per String, $5 00

| Size, Nos | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| Quantity of Bells | 12 | 8 | 4 | 2 | 2 | 2 | 1 |

# Sleigh Bells.

## Loose.

**Polished. To Wire Fasten.**

| Nos. | 2 | 4 | 6 |
|---|---|---|---|
| Diameter at Rim, inch | 1¼ | 1½ | 1¾ |
| Per Dozen | $0 82 | 1 30 | 1 75 |

# Sheep Bells.

**Cast Bell Metal with Strap.**

| Nos. | 11 | 12 |
|---|---|---|
| Size, inch | 1½ | 1¾ |
| Per Dozen | $3 00 | 3 50 |

All Above Packed as Ordered.

# Hand Bells.

## Bell Metal.

Nos. 1 to 12

## Silver Chime.

Nos. 106 to 110

**Bell Metal, Fine Polished, Enameled Wood Handles.**

| Nos. | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Diameter, inch | 2 | 2⅜ | 2⅝ | 3 | 3⅜ | 3¾ | 4 | 4⅝ | 5 | 5⅜ | 5 11/16 | 6⅜ | 6⅞ |
| Weight per Dozen, lbs | 2¼ | 2¾ | 4½ | 6 | 7½ | 10½ | 12 | 16¼ | 21 | 24 | 28 | 32 | 36 |
| Per Dozen | $2 00 | 2 62 | 3 50 | 4 50 | 6 50 | 8 50 | 11 25 | 13 75 | 18 50 | 21 00 | 30 00 | 34 00 | 36 00 |

Nos. 0 to 4, Half Dozen in a Package; 5 to 7, Third Dozen; 8 to 12, Twelfth Dozen.

**Silver Chime, Pure Bell Metal, Fine Polished, Extra Tinned.**

| Nos. | 106 | 108 | 110 |
|---|---|---|---|
| Diameter, inch | 3¾ | 4⅜ | 5⅝ |
| Per Dozen | $13 50 | 22 50 | 38 25 |

No. 106 Third Dozen in a Package. Nos. 108 and 110, Twelfth Dozen.

Half Size Cut of No. AP211.

**No. AP211**—Nickel Plated, Antique Copper Base, Weight per Dozen, 10 lbs... ..... Per Dozen, $9 00

One in a Box.

Half Size Cut of No. 214

**No. 214**—Nickel Plated, Bronzed Base, Weight per Dozen, 8 lbs ..... Per Dozen, $4 65

One in a Box.

# COMPONENT PARTS OF SMITH & WESSON REVOLVERS.

## 38 CAL. SAFETY HAMMERLESS.

| No. | | No. | |
|---|---|---|---|
| 395—Barrel, 3½ in. | $5 50 | 414—Latch Spring | $0 10 |
| 396—Barrel, 5 in. | 6 50 | 415—Handspring | 10 |
| 397—Barrel, 6 in. | 7 50 | 416—Sear | .70 |
| 398—Cylinder | 3 00 | 417—Stock Screw | .10 |
| 399—Frame | 6 50 | 418—Barrel Catch Cam | .30 |
| 400—Side Plate | .50 | 419—Extractor Stud | .20 |
| 401—Barrel Catch | .70 | 420—Firing Pin | .20 |
| 402—Trigger Guard | 1.00 | 421—Stirrup | .30 |
| 403—Mainspring | 50 | 423—Strain Screw | 10 |
| 404—Extractor Spring | .10 | 424—Trigger Spring | 20 |
| 405—Cylinder Stop Spring | 50 | 425—Split Spring | 50 |
| 406—Barrel Catch Screw | 10 | 426—Safety Latch | 20 |
| 407—Hammer Stud | 20 | 427—Hand | 50 |
| 408—Barrel Catch Cam Spring | 10 | 428—Safety Lever | 1 00 |
| 409—Firing Pin Bushing | 20 | 429—Base Pin | 50 |
| 410—Hammer Stud Nut | 10 | 430—Cylinder Stop | 70 |
| 411—Plate Screw | 10 | 431—Extractor | .50 |
| 412—Firing Pin Spring | .10 | 432—Trigger | .70 |
| 413—Sight | 20 | 433—Hammer | .60 |
| | | 434—Extractor Post | .20 |
| | | 435—Extractor Cam and Catch | .60 |
| | | 436—Right Hand Stock | .50 |
| | | 437—Left Hand Stock | .50 |

## 38 CALIBER MILITARY.

| No. | | No. | |
|---|---|---|---|
| 352—Frame | $8.00 | 377—Bolt Spring Stud | $0 10 |
| 353—Side Plate | 50 | 378—Bolt Stud Screw | .10 |
| 354—Barrel | 3 00 | 379—Yoke Screw | 10 |
| 355—Yoke | 1 50 | 380—Side Plate Screw (long) | 10 |
| 356—Cylinder | 4 00 | 381—Frame Lug | .10 |
| 357—Hammer | 1 30 | 382—Mainspring | .50 |
| 358—Trigger | 70 | 383—Extractor Rod | .30 |
| 359—Extractor | .50 | 384—Extractor Spring | .10 |
| 360—Trigger Lever | .30 | 385—Trigger Spring | .30 |
| 361—Hand | 50 | 386—Bolt | 70 |
| 362—Rebound Lever | .20 | 387—Frame Pin | 10 |
| 363—Bolt Thumb Piece | 50 | 388—Center Pin Spring | .10 |
| 365—Sear | .30 | 389—Center Pin | 10 |
| 366—Cylinder Stop | 50 | 390—Stock Screw | .10 |
| 367—Side Plate Screw (short) | 10 | 391—Hammer Stud | 20 |
| 369—Sear Spring | .10 | 392—Cylinder Stop Stud | 10 |
| 370—Stirrup | .30 | 393—Trigger Stud | 10 |
| 371—Yoke Stud | 10 | 394—Trigger Lever Stud | 10 |
| 372—Strain Screw | 10 | 395—Right Hand Stock | 60 |
| 373—Hand Lever | 20 | 396—Left Hand Stock | 60 |
| 374—Yoke Stop Spring | 10 | | |
| 375—Bolt Spring | .10 | | |
| 376—Sear Spring | .10 | | |

## 32 CALIBER DOUBLE ACTION HAND EJECTOR.

| | | | |
|---|---|---|---|
| 308—Frame | $6 00 | 329—Long Plate Screw | $0.10 |
| 309—Barrel | 2 50 | 330—Yoke Screw | 10 |
| 310—Cylinder | 2.50 | 331—Check Screw | 10 |
| 311—Yoke | 1.50 | 332—Yoke Stop Spring | 10 |
| 312—Side Plate | .50 | 333—Right Hand Stock | 50 |
| 313—Trigger Stop | .30 | 334—Left Hand Stock | 50 |
| 314—Extractor | .50 | 335—Sear Spring | 10 |
| 315—Stop | .60 | 336—Stop Spring | 10 |
| 316—Hammer | 1.00 | 337—Hand Spring | 10 |
| 317—Trigger | 70 | 338—Dowel Screw | 10 |
| 318—Trigger Lever | .40 | 339—Stock Screw | 10 |
| 319—Hand | 50 | 340—Center Pin Spring | 10 |
| 320—Rebounding Lever | .40 | 341—Extractor Spring | 10 |
| 321—Sear | 40 | 342—Split Spring | 50 |
| 322—Hand Lever | 30 | 343—Trigger Spring | .50 |
| 323—Yoke Stop | 10 | 344—Extractor Rod | 40 |
| 324—Hammer Stud | 20 | 345—Mainspring | .50 |
| 325—Trigger Stud | 20 | 346—Center Pin | 20 |
| 326—Trigger Lever Stud | .20 | 347—Sight | .20 |
| 327—Strain Screw | .10 | 348—Stirrup | 30 |
| 328—Knob | .20 | 349—Short Plate Screw | 10 |
| | | 350—Stop Screw | 10 |

# COMPONENT PARTS OF SMITH & WESSON REVOLVERS.

## 44, 32-44, 38-44 CAL. SINGLE ACTION.

| No. | Each. |
|---|---|
| 237—Barrel, 4 in. | $8 00 |
| 238—Barrel, 5 in. | 8.00 |
| 239—Barrel, 6 in. | 8 00 |
| 240—Barrel, 6½ in. | 8 00 |
| 241—Barrel, 8 in. | 10.00 |
| 242—Frame | 8.00 |
| 243—Hammer | 1 50 |
| 244—Side Plate | 60 |
| 245—Cylinder | 4 00 |
| 246—Guard | 1 00 |
| 247—Trigger | 50 |
| 248—Base Pin | .60 |
| 249—Barrel Catch | 1 00 |
| 250—Extractor Cam | .60 |
| 251—Barrel Catch Cam | 30 |
| 252—Hand | 60 |
| 253—Cylinder Stop | .50 |
| 254—Joint Pivot and Screw | 30 |
| 255—Extractor | .60 |
| 256—Right hand Stock | $0.60 |
| 257—Left hand Stock | .60 |
| 258—Extractor Post | .30 |
| 259—Strain Screw | .10 |
| 260—Stock Screw | .10 |
| 261—Barrel Catch Screw | 10 |
| 262—Long Plate Screw | .10 |
| 263—Short Plate Screw | 10 |
| 264—Guard Screw | .10 |
| 265—Barrel Catch Cam Spring | 10 |
| 266—Sight | .20 |
| 267—Stirrup | .30 |
| 268—Hammer Stud | 20 |
| 269—Cylinder Stop Spring | .10 |
| 270—Hand Spring | .10 |
| 271—Trigger Spring | 50 |
| 272—Extractor Spring | 10 |
| 273—Mainspring | .60 |

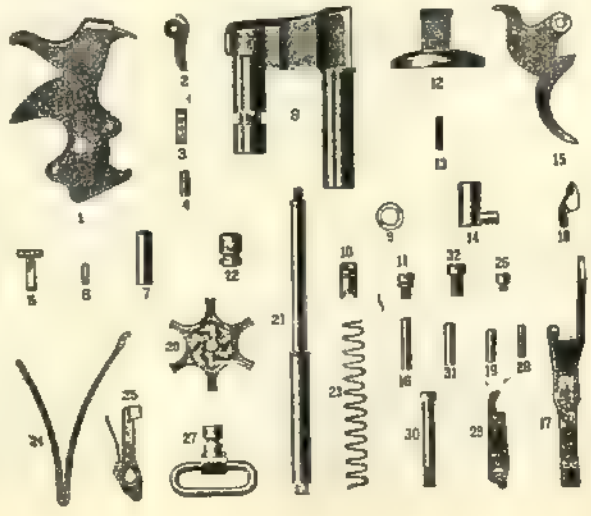
## 38 CAL. SINGLE ACTION.

| No. | Each. |
|---|---|
| 109—Barrel, 3½ in. | $5 50 |
| 110—Barrel, 6 in. | 7 50 |
| 111—Frame | 6 50 |
| 112—Cylinder | 3 00 |
| 113—Base Pin | 50 |
| 114—Gas Ring | 30 |
| 115—Side Plate | 50 |
| 117—Trigger Guard, '91 | 1 00 |
| 118—Right hand Stock | 50 |
| 119—Left hand Stock | 50 |
| 120—Hammer | 1 00 |
| 121—Extractor | 50 |
| 122—Extractor Post | 20 |
| 123—Trigger, model '91 | 50 |
| 124—Trigger, old model | .50 |
| 125—Extractor Cam | .60 |
| 126—Barrel Catch | 70 |
| 127—Stirrup, model '91 | .30 |
| 128—Stirrup, old model | .30 |
| 129—Cylinder Stop | 50 |
| 130—Trigger Spring, '91 | .50 |
| 131—Trigger Spring, old model | .10 |
| 133—Stop Spring, old Model | $0 10 |
| 134—Mainspring | 50 |
| 135—Handspring | 10 |
| 136—Barrel Catch Cam Spring | 10 |
| 137—Extractor Spring | 10 |
| 138—Strain Screw, '91 | 10 |
| 139—Barrel Catch Screw | .10 |
| 140—Extractor Stud | 20 |
| 141—Hammer Stud | 20 |
| 142—Hammer Stud Nut | .10 |
| 144—Stock Screw | 10 |
| 145—Long Plate Screw | .10 |
| 146—Short Plate Screw | .10 |
| 147—Stop Plate Screw | .10 |
| 148—Strain Screw, old model | 10 |
| 149—Guard Screw | 10 |
| 150—Stop Plate | 20 |
| 151—Hand | .50 |
| 152—Barrel Catch Cam | 30 |
| 153—Base Pin Bushing | .10 |

# COMPONENT PARTS OF COLT'S REVOLVERS.

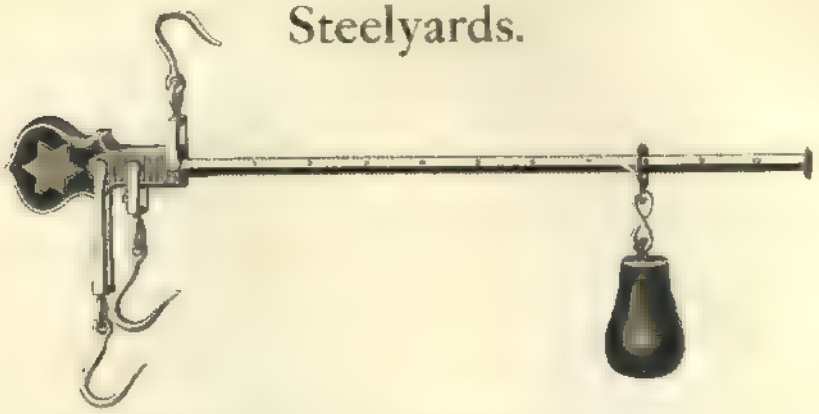
## NEW SERVICE.

| No. | Each. |
|---|---|
| 1—Hammer | $3.00 |
| 2—Strut | .50 |
| 3—Strut Spring | .12 |
| 4—Strut Pin | .08 |
| 5—Hammer Stirrup | .40 |
| 6—Hammer Stirrup Pin | .06 |
| 7—Hammer Pin | 10 |
| 8—Crane | 6 00 |
| 9—Crane Bushing | 20 |
| 10—Crane Lock | 30 |
| 11—Crane Lock Screw | 14 |
| 12—Latch | 2 00 |
| 13—Latch Spring | 04 |
| 14—Latch Pin | 24 |
| 15—Trigger | 1.50 |
| 16—Trigger Pin | .08 |
| 17—Lever | 1.70 |
| 18—Lever Fly | .20 |
| 19—Lever Pin | .08 |
| 20—Ejector & Ratchet | $1.70 |
| 21—Ejector Rod | 90 |
| 22—Ejector Rod Head | .30 |
| 23—Ejector Spring | .20 |
| 24—Mainspring | 1.40 |
| 25—Bolt and Spring | 70 |
| 26—Bolt Screw | 10 |
| 27—Swivel, complete | .30 |
| 28—Swivel Pin | 06 |
| 29—Hand | 1.00 |
| 30—Stock Screw | 10 |
| 31—Stock Pin | 06 |
| 32—Cap Screw | .10 |
| 33—Barrel | 6.00 |
| 34—Cylinder | 7 00 |
| 35—Lock Frame | 5 00 |
| 36—Stocks, Per pair | 1 50 |
| 37—Escutcheons, Per set | 10 |
| 38—Recoil Plate | 10 |
| 39—Side Plate | 2.00 |



PACIFIC HARDWARE & STEEL COMPANY

# Steelyards.



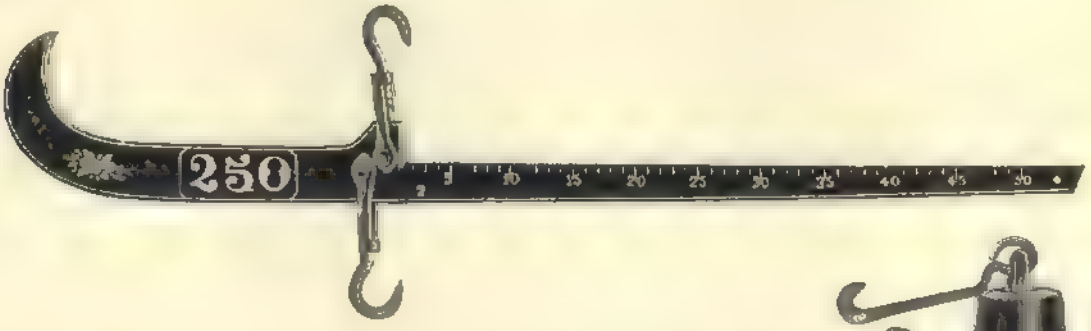
## American or Domestic Pattern.

**Balanced Heads and Stops, Head and Poises Painted Black.**

| | | |
|---|---|---|
| **Nos.** | **50** | **100** |
| Weight | 50 by 1 oz. | 100 by 2 oz. |
| Weight per Dozen, lbs | 40 | 50 |
| Per Dozen | $6 00 | 7 00 |

Half Dozen in a Box

# Scale Beams.



**Wrought Iron Hooks, Japanned, with Gold Figures and Stripes.**

| **Capacity in lbs** | **100** | **150** | **200** | **250** | **300** | **360** | **400** | **500** | **600** |
|---|---|---|---|---|---|---|---|---|---|
| Weight of Poises | 1 and 4 | 1 and 4 | 1 and 4 | 2 and 8 | 2 and 8 | 4 and 8 | 3 and 12 | 4 and 16 | 8 and 16 |
| Weight Each Complete, lbs | 8 | 9 | 10 | 16 | 18 | 21 | 25 | 38 | 38 |
| Each | $1 50 | 1 50 | 1 60 | 1 90 | 2 10 | 2 50 | 2 90 | 3 50 | 4 00 |

Packed Six in a Case

# Extra Beam Poises.

| **Weight, lbs** | **1** | **2** | **3** | **4** | **6** | **8** | **12** | **16** |
|---|---|---|---|---|---|---|---|---|
| Each | $0 25 | 0 30 | 0 40 | 0 50 | 0 70 | 0 85 | 1 10 | 1 50 |

# Scale Weights.

Even Balance.

| **Not Japanned** | **½ oz.** | **1 oz.** | **2 oz.** | **4 oz.** | **8 oz.** | **1 lb.** | **2 lbs.** | **4 lbs.** | **8 lbs.** |
|---|---|---|---|---|---|---|---|---|---|
| Each | $0 10 | 0 10 | 0 15 | 0 15 | 0 15 | 0 25 | 0 40 | 0 70 | 1 20 |

## Portable Platform.

| **Size, lbs** | **50** | **100** | **200** | **300** | **500** |
|---|---|---|---|---|---|
| **Each** | $0 30 | 0 30 | 0 45 | 0 60 | 0 85 |

## Union.

| **Size, lbs** | **5-40** | **10-80** |
|---|---|---|
| **Each** | $0 30 | 0 45 |

Packed as Ordered

# HUNTING KNIVES.

## STERLING.

Scored Ebony Handle. Polished Steel Bolster.

| | | | | |
|---|---|---|---|---|
| **No. 0**—Length of blade, inch | 5 | 5½ | 6 | |
| Per dozen | $6.00 | 6.50 | 7.00 | |

Extra Heavy Blade. Scored Ebony Handle.

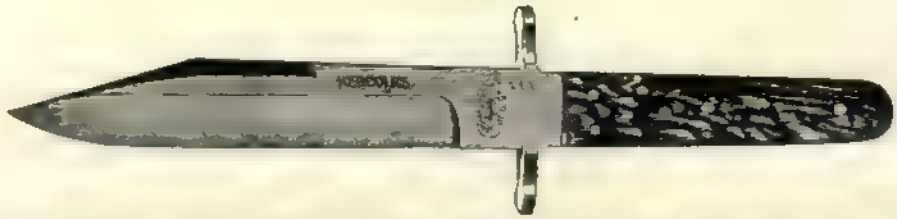
| | | |
|---|---|---|
| **No. 00**—Length of blade, inch | 6 | 8 |
| Per dozen | $15.00 | 24.00 |

## NON-XLL.

Hand-Forged Steel Blade. Stag Handle German Silver Guard. Russet Leather Sheath with Loop for Belt.

| | | | | |
|---|---|---|---|---|
| **No. 41**—Length of blade, inch | 5 | 6 | 7 | 8 |
| Per dozen | $15 00 | 16 50 | 18.00 | 21.00 |

## HERCULES.



Extra Heavy Hand-Forged Steel Blade Genuine Stag Handle Polished Brass Guard and Bolster
Russet Leather Sheath with Loop for Belt

| | | | | |
|---|---|---|---|---|
| **No. 40**—Length of blade, inch | 6 | 7 | 8 | 9 |
| Per dozen | $18.00 | 24.00 | 33.00 | 42 00 |

## MARBLE IDEAL.

No. 1721.

| | |
|---|---|
| **No. 1720**—6-inch hollow ground razor steel blade. Laminated leather handle. Buckhorn or hard rubber tips. With leather sheath. Plain handle | Per dozen, $30 00 |
| **No. 1721**—Same as No. 1720, with fancy handle | " 36 00 |

One-half dozen in box

PACIFIC HARDWARE & STEEL COMPANY

# POCKET KNIVES.

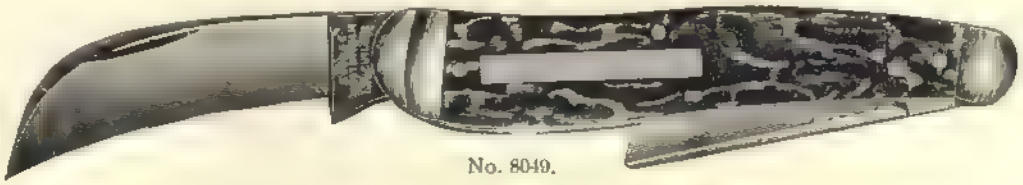
## GEORGE WOSTENHOLM & SON'S IXL.

No. 14151.

**No. 11543**—Pruning. One blade, glazed. Cocoa handle. Iron lined. Polished steel bolster.....Per dozen, $12 00
**No. 14151**— " " " " Iron " " " " " " " " 10 00

No. 7706.

**No. 7706**—Pruning. One blade, glazed. Ebony handle. Iron lined. Polished steel butt and bolster.....Per dozen, $18 00



No. 8049.

**No. 8049**—Pruning. Two blades, crocus polished. Stag handle. Brass lined. Polished steel cap and bolster.....Per dozen, $28.00

No. 11816.

**No. 11816**—Sailors'. One blade, glazed. Cocoa handle. Iron lined. Polished steel bolster.....Per dozen, $12 00

No. 7633.

**No. 7633**—Spring back lock. 4-inch blade, full crocus polished. Genuine stag handle. Iron lined. Polished steel bolster. Per dozen, $21 00
One-half dozen in box. Cuts, three-quarter size.

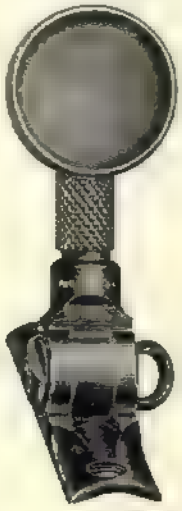
# LYMAN SIGHTS.

We carry in stock a complete line of Lyman and Winchester Sights as illustrated, and are prepared to fill all orders promptly. In ordering sights, be sure and state for what model and caliber the sight is intended also the make of rifle or pistol, thus avoiding delay in filling orders.

COMB NAT ON REAR.

**No. 1**... . . ... ..Each $3.00

COMB NATION REAR WITH CUP D SC.



**No. 2**. .. . Each, $3 50

IVORY BEAD FRONT.

**No. 3**
Each., $1.00

IVORY HUNTING FRONT.

**No. 4**
Each, $0 50

COMBINATION IVORY FRONT.

Used with Globe.
**No. 5** . ..... ..Each, $1 00

PATENT LEAF

Both Leaves Folded Down. Using the Straight Leaf. Using the Crotch

**No. 6** . .Each, $1 00

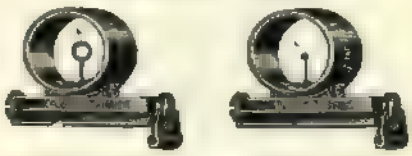
SLOT BLANK

**No. 12**
Each .....$0 25

REAR WIND-GAUGE.

**No. 15** ..... . .... ..... .Each, $5 00

WIND-GAUGE TARGET.



Showing Aperture. Showing Globe.

**No. 7**. .... . . . . ..... .....Each, $3 50

TARGET

**No. 17**.....Each, $1.50

FRONT REVOLVER.

Smith & Wesson. Colt.

**No. 16**.....Each, $0.50

FRONT

No. 25.

Sight No. 26, made for the following rifles only: Winchester Model 1895, Rifle, .30 U. S. A. caliber Winchester Carbines; Lee Straight Pull Rifle Remington-Lee Sporting Rifle, 30-30 caliber.

**No. 26**..... .Each, $0.50

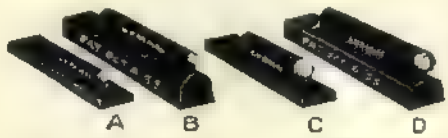
WIND-GAUGE SPORTING.

**No. 8**.....Each, $3.00

JACK.

**No. 20**, Each, $1.00

IVORY TIPPED CATERPILLAR, FOR DOUBLE EXPRESS RIFLE.



A B C D

**No. 23** ..... ..... . .. . . . Each, $1.00

REAR REVOLVER.

Smith & Wesson Colt.

**No. 19**..... . .Each, $1.00

SHOTGUN.

**No. 10**—Front sight only.... .Each, $0.50
**No. 11**—Rear " " ..... 50

PACIFIC HARDWARE & STEEL COMPANY

# STEVENS PISTOLS.

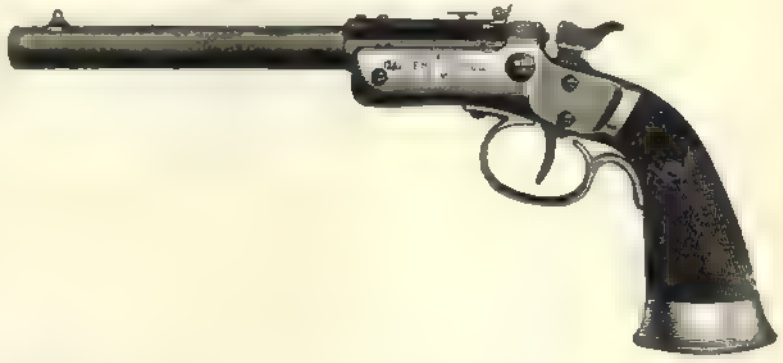
## POCKET OR BICYCLE RIFLE No. 40.

Made to shoot 22 Long Rifle, R. F. 25 R. F. and 32 Long R. F. Cartridges. Detachable Skeleton Stock, Nickel-plated.

**No. 40 C**—With 10-inch barrel. . . . . Each, $ 9.25
**No. 40 D**— " 12 " " . . . . . " 10.00
**No. 40 E**—With 15-inch barrel. . . . . Each, $11 25
**No. 40 F**— " 18 " " . . . . . " 12 50

Weight, 2 to 2¾ lbs., according to length.

## GOULD MODEL. No. 37.



Made for the 22 Long Rifle and 25 Rim Fire Cartridges. Fitted with Open Wind Gauge Rear and Bead Front Sights, Walnut Checked Handle. Nickel-plated Frame, Guard and Butt.

**No. 37 C**—With 10-inch barrel. . . . Each, $15 00
**No. 37 D**— " 12 " " . . . . " 16 00

Weight, about 2¼ lbs

## LORD MODEL. No. 36.

Open Wind Gauge Rear Sight and Bead Front Sight, Spur Trigger, otherwise same as No. 37.

**No. 36 C**—With 10-inch barrel. . . . Each, $16.50

Weight, 3 lbs.

## TIP-UP. No. 41.

An Accurate Little Pocket Pistol. Made to use 22 Short Rim Fire Cartridges. Plain Walnut Stock, Nickel-plated Frame and Barrel.

**No. 41**—3½-inch barrel . . . . . Each, $2 50

Weight, about 1½ lbs.

## DIAMOND MODEL TARGET. No. 43.

STEVENS-DIAMOND MODEL TARGET PISTOL.

Blued Barrel. Long Plain Grip Stock Nickel-plated Frame. Globe and Peep Sight for 22 Long Rifle Rim Fire Cartridge only

**No. 43 A**—6-inch barrel, globe, front and peep sights. . . . . Each, $5 00
**No. 43 B**— " " open sights. . . . . " 5.00

Weight, 10 ounces.

**No. 43 C**—10-inch barrel, globe, front and peep sights. . . . Each, $7 50
**No. 43 D**— " " open sights. . . . . " 7.50

Weight, 12 ounces.

# STEVENS PISTOLS.

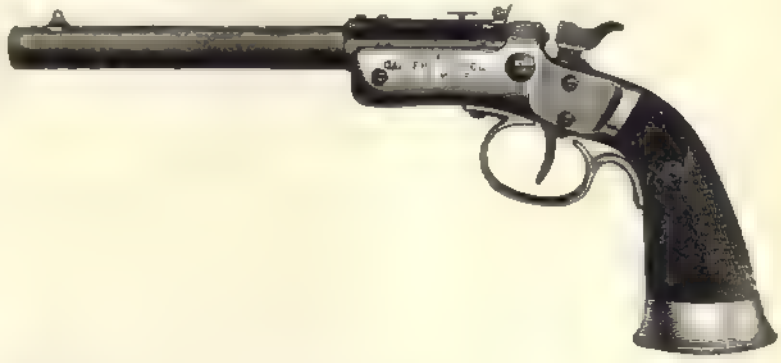
## POCKET OR BICYCLE RIFLE No. 40.

Made to shoot 22 Long Rifle, R. F. 25 R. F. and 32 Long R. F. Cartridges. Detachable Skeleton Stock, Nickel-plated.

**No. 40 C**—With 10-inch barrel . . . . . Each, $ 9.25
**No. 40 D**— " 12 " " . . . . . " 10.00
**No. 40 E**—With 15-inch barrel . . . . . Each, $11 25
**No. 40 F**— " 18 " " . . . . . " 12 50

Weight, 2 to 2¾ lbs., according to length.

## GOULD MODEL. No. 37.



Made for the 22 Long Rifle and 25 Rim Fire Cartridges. Fitted with Open Wind Gauge Rear and Bead Front Sights. Walnut Checked Handle. Nickel-plated Frame, Guard and Butt.

**No. 37 C**—With 10-inch barrel . . . . . Each, $15.00
**No. 37 D**— " 12 " " . . . . . " 16 00

Weight, about 2¼ lbs.

## LORD MODEL. No. 36.

Open Wind Gauge Rear Sight and Bead Front Sight, Spur Trigger, otherwise same as No. 37.

**No. 36 C**—With 10-inch barrel . . . . Each, $16 50

Weight, 3 lbs.

## TIP-UP. No. 41.

An Accurate Little Pocket Pistol. Made to use 22 Short Rim Fire Cartridges. Plain Walnut Stock. Nickel-plated Frame and Barrel.

**No. 41**—3½-inch barrel . . . . . Each, $2 50

Weight, about 1½ lbs.

## DIAMOND MODEL TARGET. No. 43.

STEVENS-DIAMOND MODEL TARGET PISTOL.

Blued Barrel. Long Plain Grip Stock Nickel-plated Frame. Globe and Peep Sight for 22 Long Rifle Rim Fire Cartridge only

**No. 43 A**—6-inch barrel, globe, front and peep sights . Each, $5 00
**No. 43 B**— " " open sights . . . . . " 5 00

Weight, 10 ounces.

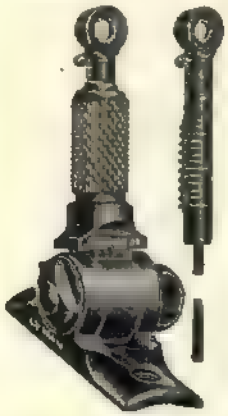
**No. 43 C**—10-inch barrel, globe, front and peep sights . . . Each, $7 50
**No. 43 D**— " " open sights . . . . . " 7.50

Weight, 12 ounces.

# LYMAN SIGHTS.

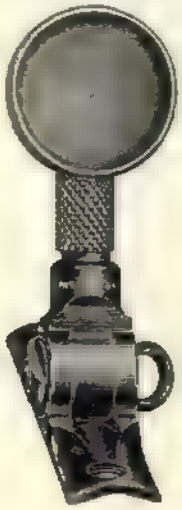
We carry in stock a complete line of Lyman and Winchester Sights as illustrated, and are prepared to fill all orders promptly. In ordering sights be sure and state for what model and caliber the sight is intended also the make of rifle or pistol, thus avoiding delay in filling orders.

COMB NAT ON REAR.



**No. 1**.. . .. ... .Each, $3.00

COMB NATION REAR WITH CUP D SC.



**No. 2**.. . Each, $3 50

IVORY BEAD FRONT.

**No. 3**
Each., $1.00

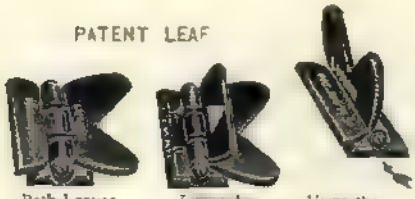
IVORY HUNTING FRONT.

**No. 4**
Each, $0.50

COMBINATION IVORY FRONT.

Used with Globe. Used with Ivory.
**No. 5**.....Each, $1.00

PATENT LEAF



Both Leaves Folded Down. Using the Straight Bar. Using the Crotch.

SLOT BLANK

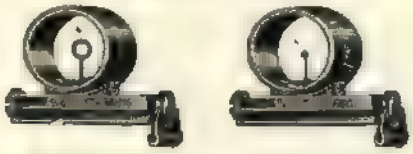
**No. 12**
Each .....$0 25

**No. 6**.....Each, $1 00

REAR WIND-GAUGE.

**No. 15** ..... .... .....Each, $5.00

WIND-GAUGE TARGET.



Showing Aperture. Showing Globe.
**No. 7**. ... . . . ..... ... .Each, $3 50

WIND-GAUGE SPORTING.

JACK.

**No. 8**.....Each. $3 00 **No. 20**, Each, $1.00

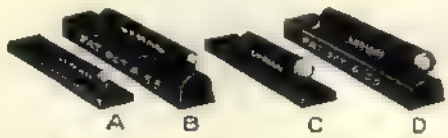
TARGET

**No. 17**.. . .. .. ...Each, $1.50

FRONT REVOLVER.

Smith & Wesson Colt.
**No. 16**.. . .Each, $0.50

IVORY TIPPED CATERP LLAR, FOR DOUBLE EXPRESS RIFLE.



A B C D
**No. 23** ..... ..... .. . .. Each, $1.00

FRONT

No. 26.

Sight No. 26, made for the following rifles only: Winchester Model 1895, Rifle, .30 U. S. A. caliber Winchester Carbines; Lee Straight Pull Rifle Remington-Lee Sporting Rifle, 30-30 caliber.

**No. 26**.. . . Each, $0.50

REAR REVOLVER.

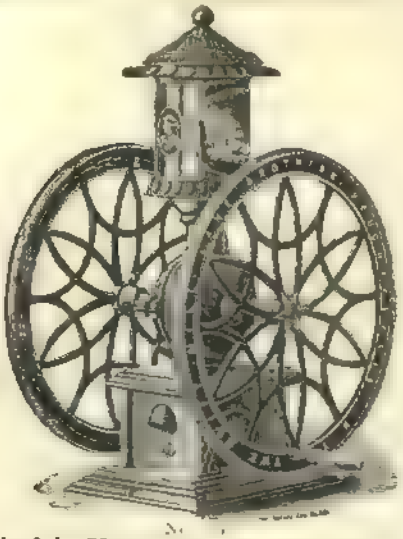
Smith & Wesson Colt.
**No. 19**..... .Each, $1.00

SHOTGUN.

**No. 10**—Front sight only.... .Each, $0.50
**No. 11**—Rear " " ..... " 50

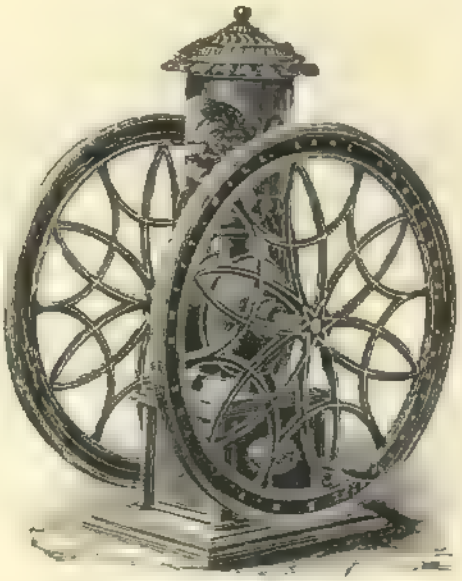
# Coffee Mills.

## Swift's



Finished in Vermilion, Jet Black and Gold.

**No. 15**—Height 30 in., Wheels 20 in Diameter, Will Grind 1½ lbs Coffee per Minute, Weight Each, 95 lbs ..... Each, $15 00



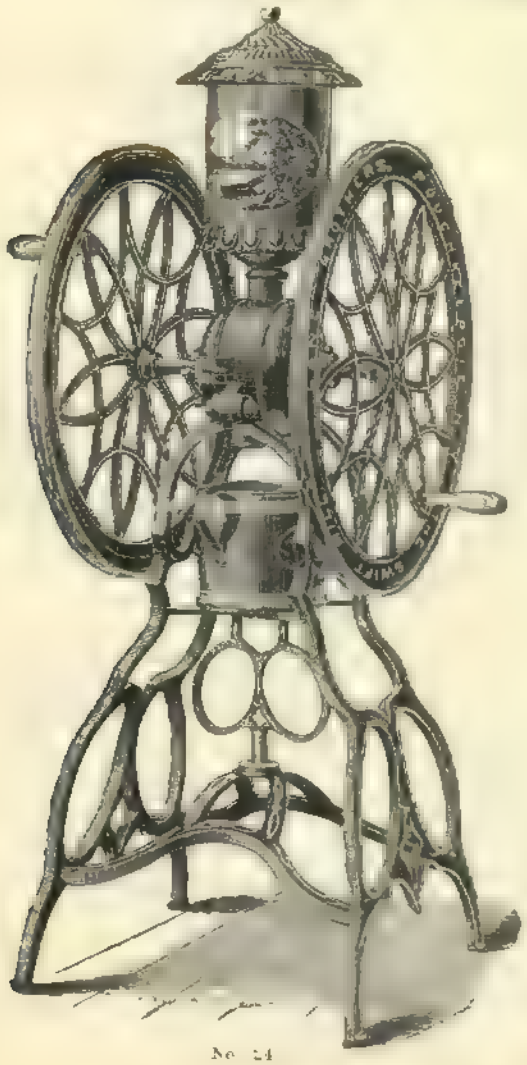
**This Mill is Finely Ornamented and Finished in the Best Manner, Has a Fancy Iron Hopper, Two Twenty-four Inch Fly Wheels**

**It is also fitted with Self Oiling bearings, and has detached grinding surfaces constructed of the best material.**

**Capacity, one and three-quarter pounds per minute**

**No. 16**—Weight Each, 140 lbs..... Each, $20 00

Weights Include Mill Crated.



# Swift's Coffee Mill.

## No. 24.

**This Mill is handsomely ornamented. Finished in Vermilion, Jet Black and Gold. It has detachable grinding surfaces of the most durable kind, is fitted with self-oiling Bearings. Height, 5 ft. 6 in. Two thirty-inch fly wheels will grind two pounds of coffee per minute.**

**No. 24**—Weight Each Crated, 337 lbs..... Each, $37 00

**No. 24**—With Power, Tight and Loose Pulley, Weight Each Crated, 350 lbs ..... Each, $45 00

# Coffee Mills.

## Swift's.

No. 12

No. 1[illegible]

No. 13

**Highly Ornamented, Finished in Vermilion and Gold.**

**No. 12** —Height, 14 in. One 9 in. Fly Wheel, Iron Hopper and Closed Drawer, Will Grind One-Half Pound of Coffee per Minute, Weight Each, 15 lbs. ..... Each, $2 50

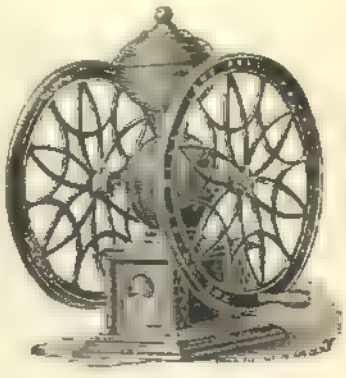
**No. 12½** Height 14 in., Two 9 in. Fly Wheels, Iron Hopper and Closed Drawer, Will Grind One-Half Pound of Coffee per Minute, Weight Each, 18 lbs. ..... Each, 3 50

**No. 13** —Height, 18 in., Two 12 in. Fly Wheels, Iron Hopper and Closed Drawer, Will Grind Three-Quarters of a Pound of Coffee per Minute, Weight Each, 40 lbs. ..... Each, 5 00

Weights Include Mills Crated

No. 13½

No. 14



No. 140

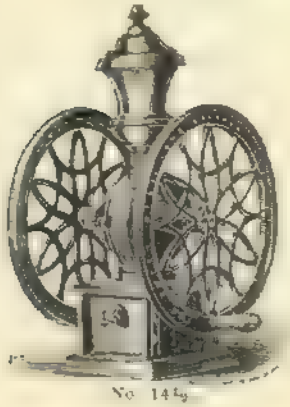
**Highly Ornamented, Finished in Vermilion and Gold.**

**No. 13½**—Height, 25½ in. Fly Wheels 12 in. Diameter, Brass, Nickel Plated Hopper, Closed Drawer, Will Grind Three-Quarters of a Pound of Coffee per Minute, Weight Each, 37 lbs. ..... Each, $9 00

**No. 14** —Height, 21 in. Fly Wheels 15 in. Diameter, Iron Hopper, Closed Drawer, Will Grind One Pound of Coffee per Minute, Weight Each, 60 lbs. ..... Each, 8 00

**No. 140**—Height, 23 in., Fly Wheels 17 in. Diameter, Iron Hopper, Closed Drawer, Will Grind One and One-Quarter Pounds of Coffee per Minute, Weight Each, 68 lbs. ..... Each, 10 00

Weights Include Mills Crated



No. 14½

## No. 14½.

**Highly Ornamented, Finished in Vermilion and Gold.**

**No. 14½**—Height, 27½ in., Fly Wheels 15 in. Diameter, Brass, Nickel-Plated Hopper, Closed Drawer, Grinds One Pound of Coffee per Minute, Weight Each, 56 lbs. ..... Each, $12 00

Weights Include Mills Crated

# STEAM ENGINE INDICATORS.

## TABOR.

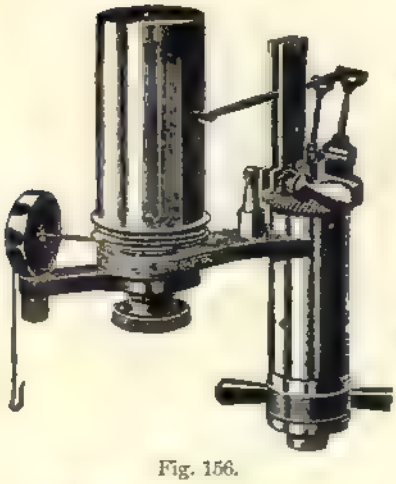


Fig. 156.

Complete, with 1 spring, 1 scale, 2 cocks, 100 plain cards, treatise on the indicator, 1 screw-driver, 1 bottle oil, 1 extra drum spring and the necessary wrenches, all enclosed in neat black walnut box with nickel-plated trimmings.

**Fig. 156**—Weight, 12½ lbs.....Each, $85.00

## THOMPSON.

Complete, with 1 spring, 1 scale, 2 cocks, 1 screw-driver, 1 bottle oil, necessary wrenches, and Pray's "Treatise on the Indicator," all enclosed in a neat black walnut box.

**Fig. 157**—Weight, 11½ lbs.....Each, $85.00

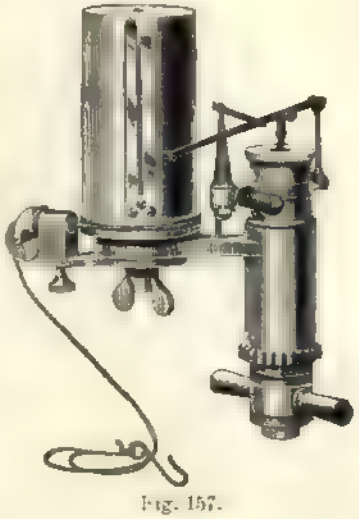


Fig. 157.

# INDICATOR SPRINGS.

## FOR TABOR OR THOMPSON INDICATORS.

Fig 158.

To adapt the Indicator to all pressures, we furnish springs to any desired scale. The following are the most generally used: 8, 10, 12, 16, 20, 24, 30, 32, 40, 48, 50, 56, 60, 64, 80, 100. For pressures from 65 to 85 lbs., a 40-lb. spring is best adapted; for, as 40 lbs. pressure on a 40-lb. spring will raise pencil 1 inch, 80 lbs. pressure on the same spring will raise pencil about 2 inches, which is the usual height of a diagram.

**Fig. 158**—Indicator springs. Weight, ½ lb.....Each, $5 00
**Fig. 159**—Boxwood scales. " ¾ " ..... " .50

Metallic indicator cards.....Per hundred, $1 50
Plain " " ..... " " 1.00

Indicator cord. Non-stretchable.....Per hank, 1.00
Indicator drum strings.....Each, 1.00

# REDUCING WHEELS.

## FOR INDICATORS. FOR EITHER UPRIGHT OR HORIZONTAL ENGINES OF NOT OVER SIX FEET STROKE.

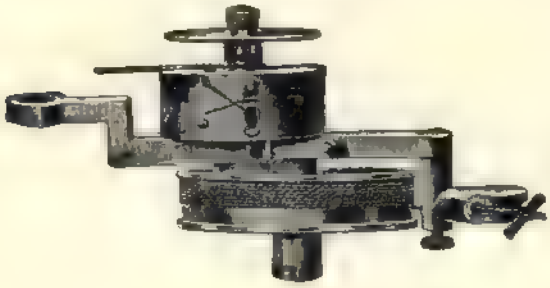
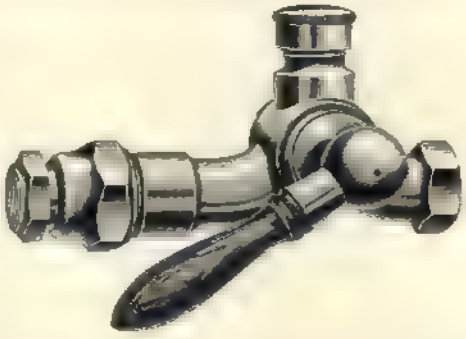


**Fig. 160**—Complete. Weight, 1¾ lbs.....Each, $25.00

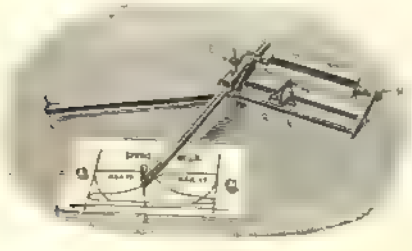
# THREE-WAY COCKS.

## FOR TABOR OR THOMPSON INDICATORS.



Nickel-Plated. With Slip Joint to Allow for Expansion.

**Fig. 164**—Weight, 4 lbs.....Each, $7.00



# IMPROVED WILLIS PLANIMETERS.

This instrument is packed in a fine morocco velvet lined case, with nickel trimmings, and every one is guaranteed perfectly accurate.

**Fig. 161**—Weight, 1 lb.....Each, $25.00

# CYLINDER OIL PUMPS.

## STEAM METAL

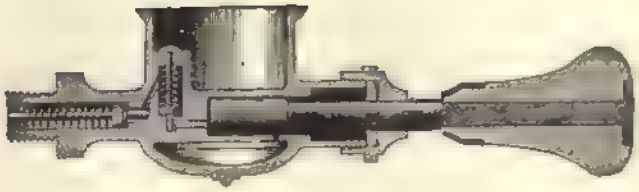


Figure 128.

| Nos. | 3 | 04 | 4 | 5 |
|---|---|---|---|---|
| Size, inch | 2x2 | 2½x2¾ | 3½x3½ | 7x4½ |
| Weight, lbs | 1¾ | 3¾ | 5 | 8 |
| Each | $3 50 | 5 00 | 7.50 | 12 00 |

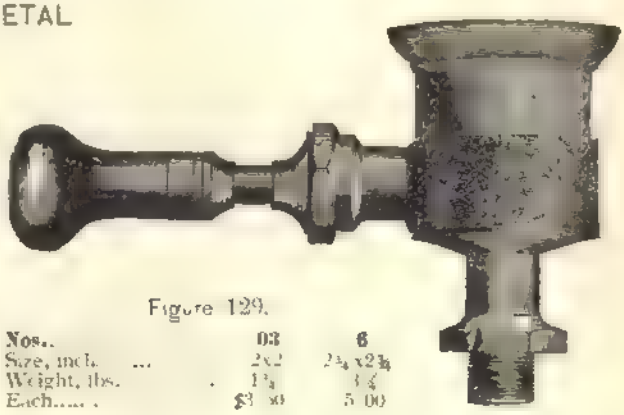


Figure 129.

| Nos. | 03 | 6 |
|---|---|---|
| Size, inch | 2x2 | 2¾x2¾ |
| Weight, lbs. | 1¾ | 3¼ |
| Each | $3 50 | 5 00 |

# HAND PULLER.

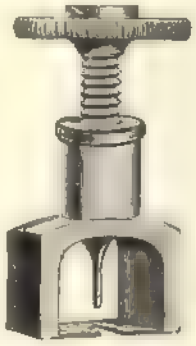


Figure 163.

The spindle or screw is made from steel properly hardened; is nickel-plated and highly finished. It can be carried in the pocket, and is a very handy tool in taking off the hands of gauges without injury to the internal parts of the gauge.

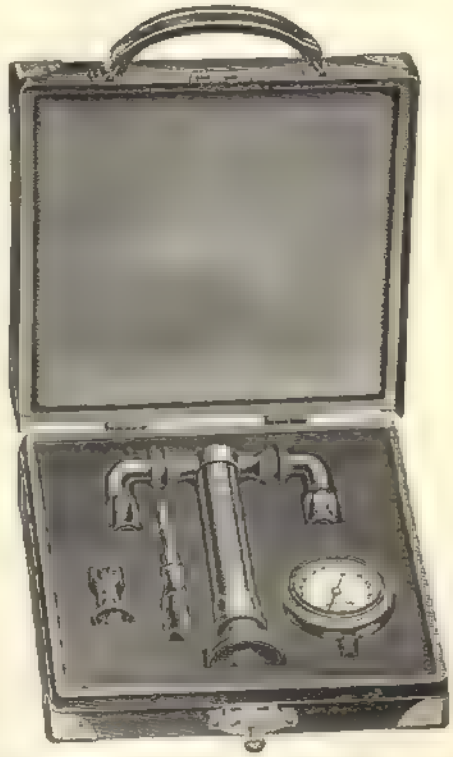
**No. 1**—Small size. Weight, ¼ lb. ..... Each, $2.00
**No. 2**—Large " " ½ " ..... " 3.00

# FUSIBLE PLUGS.

## U. S. GOVERNMENT TEST.

**Fig. 565**—Size, inch ..... 1
Weight, lb. ..... ½
Each ..... $1 50

# INSPECTOR'S TEST PUMP APPLIANCES.



Specially adapted for government and insurance boiler inspectors; made without cocks, the pressure being applied by simply turning the swivel joints on either side without detaching the gauge. The appliances consist of one 3-inch standard test gauge, graduated up to 300 pounds pressure; 2 couplings; 1 hand puller and 1 screw-driver. All nickel-plated and packed in a velvet-lined morocco case. Weight of instruments and case, complete, about 8½ pounds.

**Fig. 162**—Weight, 7 lbs. ..... Each, $45 00

# Pieced Tinware.

## Lemonade Shakers.

IC Tin.

| Nos | 1 | 2 |
|---|---|---|
| Diameter, Top, inch | 3½ | 3¾ |
| Height, inch | 4¾ | 5 |
| Per Dozen | $.... | .. |

## Miners' Canteens.

IC Tin.

| Nos | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Diameter, inch | 4½ | 4⅞ | 6⅛ | 7½ |
| Quarts | ¼ | ½ | 1 | 2 |
| Per Dozen | $.... | .. | | .. |

Steam Cookers.

## Steam Cookers.

Rust Proof Bottoms. Polished.

| Nos | 42 | 43 |
|---|---|---|
| Vessels | 4 | 4 |
| Quarts each Vessel | 2 | 3 |
| Diameter, inch | 7⅝ | 9 |
| Per Dozen | $20 00 | 20 00 |

## Perfection Oil Pump.

With Iron Rod and Patent Valve.

| No | 10 |
|---|---|
| Length, inch | 38 |
| Per Dozen | $.... |

Oil Pump.

## Watering Pots.

Bright.

IC Tin, with Zinc Roses.

| Nos | 21 | 22 | 23 | 24 |
|---|---|---|---|---|
| Quarts | 1 | 2 | 3 | 4 |
| Per Dozen | $.... | .... | .... | .... |
| **Nos** | **26** | **28** | **30** | **32** |
| Quarts | 6 | 8 | 10 | 12 |
| Per Dozen | $.... | .... | .... | .... |

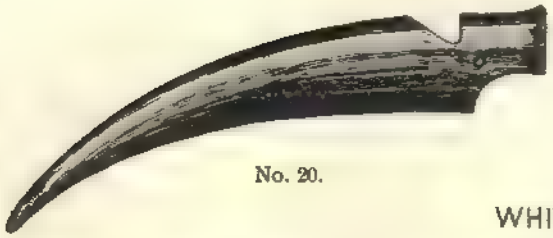
Painted.

Japanned, Green, with Zinc Roses.

| Nos | 42 | 43 | 44 |
|---|---|---|---|
| Quarts | 2 | 3 | 4 |
| Per Dozen | $.... | .... | .... |
| **Nos** | **46** | **48** | **50** |
| Quarts | 6 | 8 | 10 |
| Per Dozen | $.... | .... | .. |

# POLICE GOODS.

## HORN WHISTLES.



No. 20.

Nos. 144, 17 and 19.

## WHITE BONE WHISTLES.

No. 22.

No. 21.

| | | |
|---|---|---|
| No. 20 | Per dozen, | $3.75 |
| No. 144—Small size | " | 1 50 |
| No. 17—Medium size | " | 3 00 |
| No. 19—Large " | " | 3.75 |
| No. 22—Small " First quality | " | 3 50 |
| No. 21—Large size. First quality | " | 4 00 |

## HANDCUFFS.

Nos. 1 and 2 Nos 10 and 11 No. 4.

| | | |
|---|---|---|
| No. 1—Bean's. Polished | Per pair, | $5 00 |
| No. 2 " Nickel-plated | " | 6.00 |
| No. 10—Tower's double lock. Polished | " | 5 00 |
| No. 11— " " " Nickel-plated | " | 6 00 |
| No. 4—Cummings'. Nickel-plated | " | 6.00 |

## BEAN'S FLEXIBLE POLICE CLUBS.

Made of Sole Leather, Over Elastic Steel Spring Wires, Handle of Neatly Braided Leather, Swivel Secured to End.

| | | |
|---|---|---|
| No. 38—8-inch | Per dozen, | $18 00 |
| No. 40—10 " | " | 21 00 |
| No. 42—12 " | " | 24 00 |
| No. 50—10 " with call | " | 33 00 |
| No. 54—14 " " " | " | 39.00 |
| No. 60—Paralyzer | " | 15 00 |

## METAL GLOVES.

| | | |
|---|---|---|
| No. 100 | Per dozen, | $3 00 |

## LEG IRONS

### TOWER'S DOUBLE LOCK.

Nos. 50 and 51

| | | |
|---|---|---|
| No. 50—Polished | Per pair, | $7 00 |
| No. 51—Nickel-plated | " | 8 00 |

## TWISTERS. NIPPERS. HOOKS.

No. 3. No. 6. No. 9.

| | | |
|---|---|---|
| No. 3—Tower's. Nickel-plated | Per dozen, | $18 00 |
| No. 6—Philipps'. " | " | 18 00 |
| No. 9—Tower's. " | " | 15.00 |

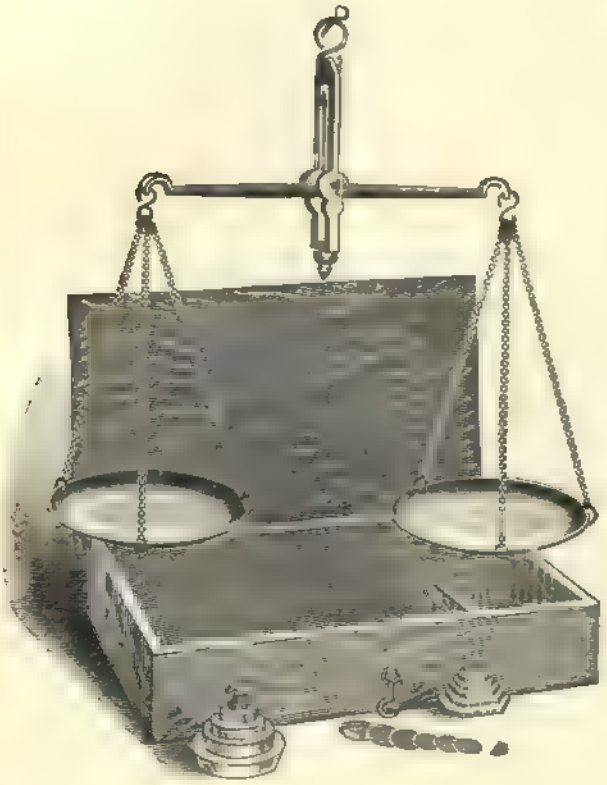
## BOSTON BILLETS.

| | | |
|---|---|---|
| No. 65—Leather covered over coil spring. Hold strap, 9 inches. Weight, 8 to 9 ounces | Per dozen, | $24 00 |

## BLACK JACKS.

| | | |
|---|---|---|
| No. 70—Black leather covered. Round end loaded with shot. Flexible braided leather handle. Hold strap. | Per dozen, | $8 00 |

# Gold Scales.



## Pocket, in Tin Boxes.

**All Brass Scales, Box Enameled and Striped.**

**No. 2**—2 oz. Troy Weight, Weight per Dozen, 8 lbs.....Per Dozen, $16 00

**No. 4**—4 oz. Troy Weight, Weight per Dozen, 11½ lbs.....Per Dozen, 19 00

**No. 6**—6 oz. Troy Weight, Weight per Dozen, 14 lbs.....Per Dozen, 24 00

## Standard, in Wood Boxes.

**All Brass Scales, Hardwood Varnished Box.**

**No. 12**—2 oz. Troy Weight, Weight per Dozen, 9 lbs.....Per Dozen, $18 00

**No. 14**—4 oz. Troy Weight, Weight per Dozen, 12½ lbs. .....Per Dozen, 21 00

**No. 18**—8 oz. Troy Weight, Weight per Dozen, 16 lbs.....Per Dozen, 27 00

## Troemner's Counter.

**Entire Scale of Brass, Accurately Adjusted, in Polished Walnut Box with Drawer. Troy Cup Weights.**

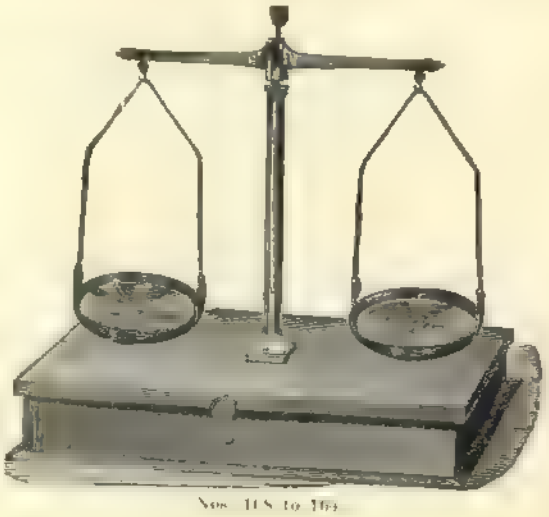
**No. 108**—Capacity, 8 oz. Troy Weight, 7 in. Beam, 3½ in. Pan, Weight Each, 5 lbs.....Each, $12 00

**No. 116**—Capacity, 16 oz. Troy Weight, 9 in. Beam, 4 in. Pan, Weight Each, 8 lbs.....Each, 15 00

**No. 132**—Capacity, 32 oz. Troy Weight, 10 in. Beam, 5 in. Pan, Weight Each, 11½ lbs.....Each, 18 00

**No. 164**—Capacity, 64 oz. Troy Weight, 13 in. Beam, 6 in. Pan, Weight Each, 17 lbs.....Each, 30 00

All Brass Weights, Grains, Pennyweights and Ounces.



Nos. 108 to 164.

# Gold Scale Weights.

**Weights Dollar** . . . .....Per Set, $1 00

# Family Scales.

## Household.

No. E90

**No. E90**—Weighs 1 oz. to 24 lbs., Enameled Steel Top. Warranted Correct.. . ... .. . Each, $2 00
Weight Boxed, 4¼ lbs

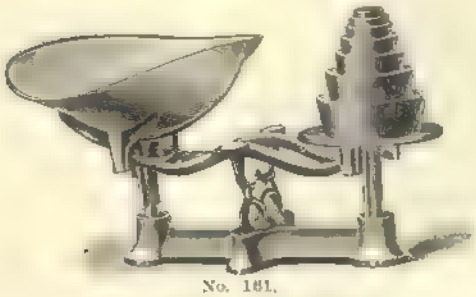
This Household or Counter Scale is made of steel, beautifully japanned and striped. Large white enameled dial, very attractive, distinct and serviceable

## Household with Scoop.

No. T90

**No. T90**—Weighs 1 oz. to 24 lbs., with Tin Scoop. Warranted Correct .... . Each, $2 25
Weight Boxed, 4½ lbs

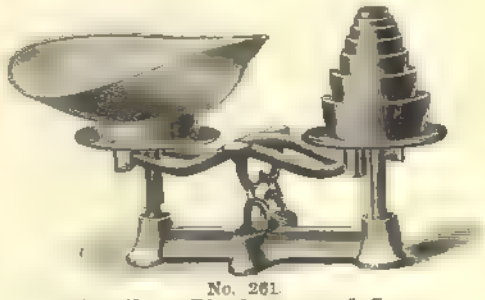
# Tea Scales.



No. 161.

**With Platform and Scoop.**

**No 161**—Weighs ½ oz. to 4 lbs., Japanned, Tin Scoop, Weight per Dozen, 11c lbs . . . . Per Dozen, $15 00



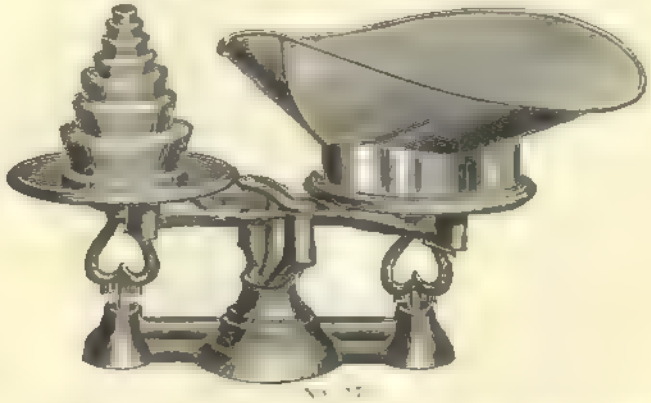
No. 261.

**With Two Platforms and Scoop.**

**No. 261**—Weighs ½ oz to 4 lbs., Japanned, Tin Scoop, Weight per Dozen, 120 lbs .... . Per Dozen, $16 00

Quarter Dozen in a Box

# Standard Counter Scale.



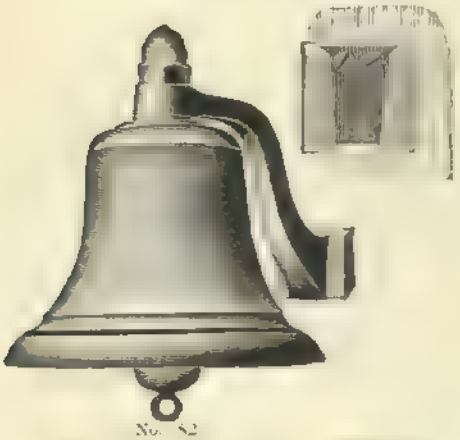
No. 17

**No. 171**—Weighs ½ oz. to 8 lbs., Japanned, with Two Platforms and Tin Scoop, Weight Each, 27 lbs . .. . Each, $5 00

One in a Box.

# Ship Bells.

## With Bracket.



No. 82

No. 82—Bell Metal, Polished.

| Diameter, inch | 5 | 6 | 7 |
|---|---|---|---|
| Weight Each, lbs | 6¼ | 7½ | 8½ |
| Each | $15 00 | 18 20 | 20 00 |

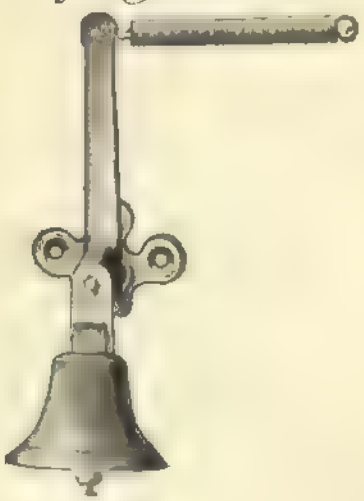
## With Yoke.

No. 81

No. 81—Bell Metal, Polished.

| Diameter, inch | 7 | 10 |
|---|---|---|
| Weight Each, lbs | 8 | 28 |
| Each | $12 00 | 30 00 |

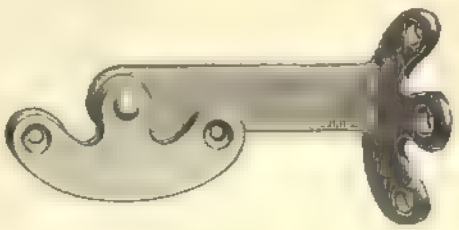
# Jingle Bells.



# Bell Cranks.

## Side or Flat.

## End or Upright.



## Jingle Bells.

Polished Brass Bells. Rolled Brass Carriages.

| Diameter, inch | 3 | 3½ | 4 |
|---|---|---|---|
| Weight Each, lbs. | 1½ | 2 | 2½ |
| Each | $4 00 | 5 00 | 6 00 |

## Bell Cranks.

Brass.

| Size | Side or Flat. Small | Large | End or Upright. Small | Large |
|---|---|---|---|---|
| Weight per Dozen, lbs | 3½ | 7 | 3½ | 9½ |
| Per Dozen | $6 00 | 7 50 | $7 50 | 9 00 |

# Bell Pulls.

Finished Brass. Polished Handles.

| Nos. | 141 | 143 | 146 | 147 | 148 | 149 |
|---|---|---|---|---|---|---|
| Length, inch | 5 | 7 | 9 | 11 | 12 | 13 |
| Per Dozen | $10 00 | 15 00 | 18 00 | 20 00 | 24 00 | 30 00 |

# Check Springs.

Brass Spring Wire.

| Length, inch | 4 | 5 | 6 | 7 | 8 | 10 | 12 |
|---|---|---|---|---|---|---|---|
| Wt. per Doz., lbs. | 1¼ | 1½ | 2½ | 3 | 4 | 6 | 9 |
| Per Dozen | $1 50 | 5 00 | 6 00 | 7 00 | 8 50 | 11 00 | 15 00 |

# WALSRODE SMOKELESS POWDER.

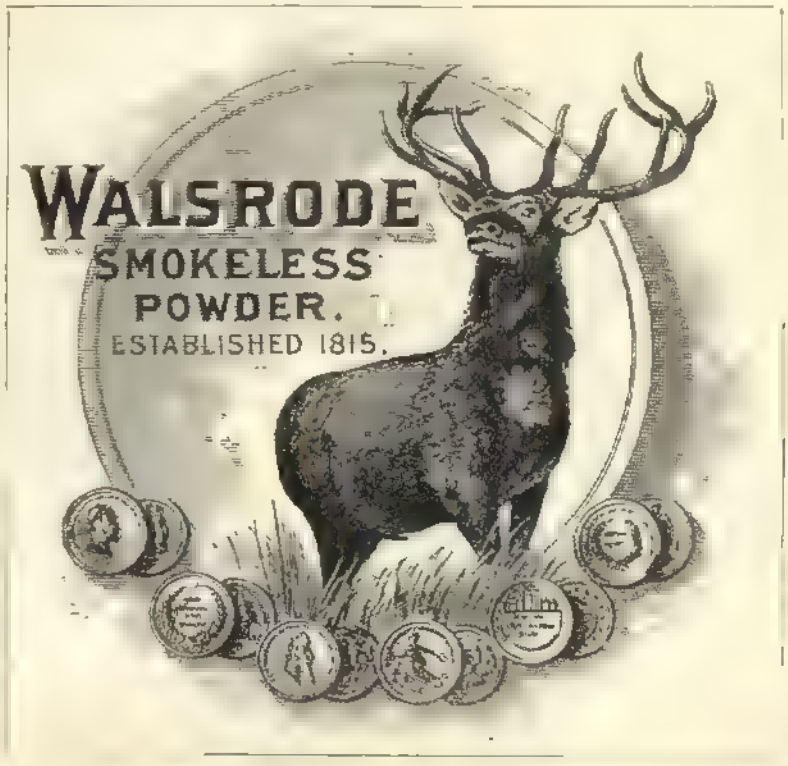
Walsrode Smokeless Powder has been brought to the notice of every sportsman of America during the last nine years. Since the Chicago Powder Test in 1893, in which all Nitros competed in public, and in which it defeated all and was awarded HIGHEST MERIT, it has not only held its own against the most formidable competition but has steadily gained favor and friends here, as well as in England and on the Continent.

The total absence of smoke, quickness and clean killing power of Walsrode Powder has never been equalled, and it is the only Smokeless Powder on the market labeled.

## GUARANTEED NOT TO DETERIORATE.

A Walsrode Cartridge will give you satisfaction if loaded to-day or many years ago
Walsrode will retain its killing penetration in an atmosphere so damp that Black Powder will dissolve.
Use High Base Shells only.

PACIFIC HARDWARE & STEEL COMPANY




## THE KING OF THE NITROS, THE NEW GREEN WALSRODE.

A milder powder, in which all the good qualities of the gray Walsrode have been retained and increased penetration and velocity and even pattern are given. HIGHLY COMMENDED, is the verdict in England, the Continent and of the test in this country.

## TRY THE NEW GREEN WALSRODE.

The rapidity with which this new nitro powder is making fast friends is the best testimonial for it.

## INSTRUCTIONS FOR LOADING NEW GREEN WALSRODE.

A 10 per cent heavier load can be used than with the former gray Walsrode. Scientific tests in the United States, England and the Continent, highly endorse this new issue as giving low breech pressure, high velocity and very even pattern.

## STANDARD LOADS.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 16 | Gauge | | 25 | Grain | 10 | Gauge, Game | .38 Grain |
| 12 | " | Targets | 30 | " | 10 | " Maximum | .40 " |
| 12 | " | Game | 32 | " | 8 | " | .58 " |
| 12 | " | Maximum | .34 | " | | | |

Use only High Base Shells made for dense powders, 12 gauge, medium load is about 1¼ drams.

## PRICES OF GRAY AND NEW GREEN POWDERS.

| | | | | | |
|---|---|---|---|---|---|
| Single Cans, containing | 84 | standard loads, | Green only | Each, | $1 00 |
| Drums " | 840 | " " | Gray or Green | " | 9 00 |

We are Pacific Coast agents for Walsrode Powder.

# SMOKELESS SPORTING POWDER.

## CALIFORNIA POWDER WORKS.

| | | |
|---|---|---|
| Canisters (equal in bulk to 1 lb. black powder) | Each, | $ 1 00 |
| ¼ kegs " " " 6¼ lbs. black powder | " | 5 75 |
| ½ " " " " 12½ " " | " | 11 25 |
| Kegs " " " 25 " | " | 22.00 |

## HAZARD'S.

| | | |
|---|---|---|
| Canisters (equal in bulk to 1 lb. black powder) | Each, | $ 1.00 |
| ¼ kegs " " " 6¼ lbs. " " | " | 5.75 |
| ½ " " " 12½ " " | " | 11.25 |
| Kegs " " 25 | " | 22 00 |
| Blue Ribbon (smokeless), 1 lb. cans | | 1.00 |
| " " " ¼ kegs. | " | 5 75 |
| " " " ½ " | " | 11.25 |
| " " " kegs. | " | 22 00 |

## DUPONT'S.

| | | |
|---|---|---|
| Canisters (equal in bulk to 1 lb. black powder) | Each, | $ 1.00 |
| ¼ kegs " " " 6¼ lbs. " " | " | 5 75 |
| ½ " " " 12½ " " | " | 11 25 |
| Kegs " " 25 | " | 22 00 |
| Dupont's Rifle Powder, No. 1 or No 2 | Per pound, | 1 00 |
| " " " .30 caliber. | " | 1.25 |

## E. C. OR SCHULTZE.

| | | |
|---|---|---|
| Cans (equal in bulk to 1 lb. black powder | Each, | $0 85 |
| Drums " " " 10 lbs. " " | " | 8 25 |

## LAFLIN AND RAND.

| | | | |
|---|---|---|---|
| Infallible, shotgun, smokeless. | Single canisters (3500 grains) | Each, | $ 1 00 |
| Infallible, " " | 10-can drums (35000 " ) | " | 9 00 |
| Infallible, " " | 25 " 12½ " keg) | " | 22 50 |
| Infallible, " " | 50 " " (25 " " ) | " | 43 50 |
| Sharpshooter rifle " | Double canisters (7000 grains) | " | 1.50 |
| Lightning " " | " " (7000 " ) | " | 1.50 |
| †W A. 30 caliber rifle " | " " (7000 " ) | " | 1.50 |
| Bulls Eye, revolver " | Single " (3500 " ) | " | 1.25 |

†This powder is adapted for use in high power rifles, service charges only, and is nearer perfection than any powder that has ever been put on the market. For use in 30 Cal. U. S. Gov't, 30-40 Winchester and 30-40 Remington.

# WARRANTY ON AXES.

We warrant our own brands of axes, to wit:

## PACIFIC, PHOENIX RUSSELL AND CRESCENT.

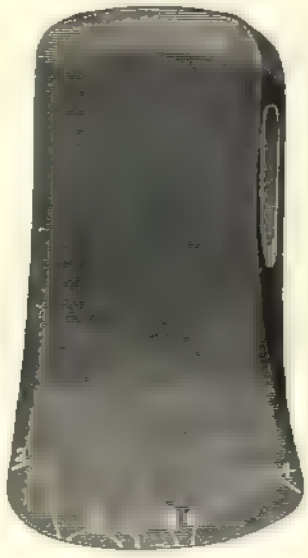
We do not warrant any other brands.

Manufacturers do not warrant their axes.

BUY OUR BRANDS
AND
WARRANT THEM
AS WE DO,
IF YOU WISH
TO WARRANT
THE AXES
YOU SELL.

---

YOU
WILL FIND
THAT
IT PAYS
IN THE END.



WARRANTY.

No. 1—Represents a break from shrinking of the center after the edge has hardened.

No. 2—Shrinkage of edge more than the center.

No. 3—A sound breakage.

No 4—A sound break in connection with a crack in hardening—all of which are liable to occur in any part of the edge of the tool, and we warrant against breaks by flaws as indicated by figures 1, 2 and 4, or being soft, but will not warrant against sound breaks, or replace for such as indicated by figure 3.

WE WARRANT
OUR AXES
ACCORDING
TO THE
ACCOMPANYING
RULES
AND NOT
OTHERWISE.

---

IF YOU
WARRANT THEM
OTHERWISE,
YOU DO IT
AT YOUR OWN
RISK.

PACIFIC HARDWARE & STEEL COMPANY

The steel in all axes, in order to carry a good edge, must be of high temper; and for this reason a good axe is more likely to break than a poor one. Soft steel will first bend and then break; so it is impossible for an axe that is too soft to hold a good cutting edge. Breaks from flaws are readily known by their angular form, not by the color, while sound breaks (which are no fault of the manufacturer), are always circular in form

No claim for defective axes will be entertained, except in accordance with above warranty.

Defective axes must be returned to us, free of expense for freight or express charges.

Dealers, in warranting axes should not extend time of warranty for a longer period than 10 days, with one exchange only.

DEPARTMENT No. 1.

# TOOLS

MECHANICS'

LUMBERING

MINING

RAILROAD

BLACKSMITHS'

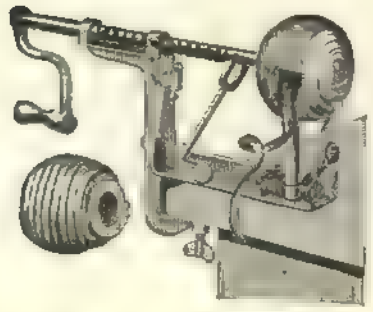
FARMING, ETC.

PACIFIC HARDWARE & STEEL CO.

SAN FRANCISCO.

# APPLE PARERS.

## WHITE MOUNTAIN.

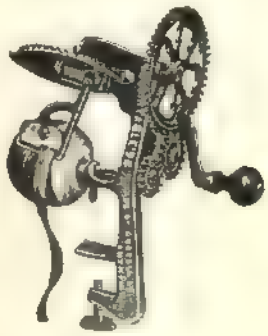


Pares Cores and Slices

| No. | 2 |
|---|---|
| Weight, lbs. | 25 |
| Per dozen | $9 00 |

One dozen in box

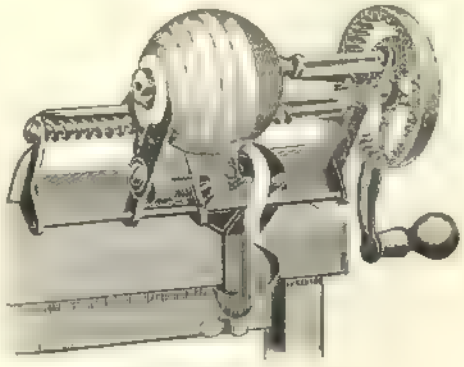
## TURN TABLE.



Parings Fall Clear of Working Parts
Pares Close to Ends.

| No. | 98 |
|---|---|
| Weight, lbs. | 30 |
| Per dozen | $10 00 |

## BAY STATE FAMILY

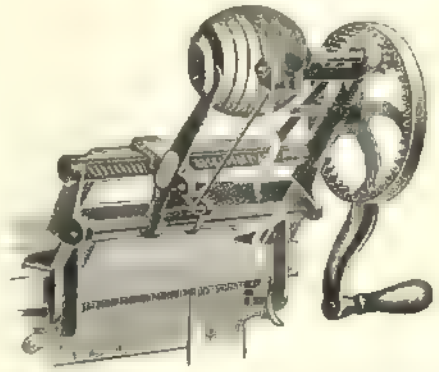


Pares Cores and Slices.

| No. | 1 |
|---|---|
| Weight, lbs. | 30 |
| Per dozen | $21.00 |

One-half dozen in box.

## BAY STATE IMPROVED



Extra Large. Pares, Cores and Slices. With Push-Off Lever, for Throwing Off Apple After Paring.

| No. | 2 |
|---|---|
| Weight, lbs. | 75 |
| Per dozen | $38 00 |

## EXTRA PARTS FOR BAY STATE PARERS.

Family.

| | | |
|---|---|---|
| Slicing knives. | Weight, ⅜ lb. | Per dozen, $1 80 |
| Knife head. | ½ " | " 3 00 |
| Paring knife. | ¾ " | " 1 80 |
| Fork. | ½ " | " 1 80 |

Improved.

| | | |
|---|---|---|
| Slicing knives. | Weight, ⅝ lb. | Per dozen, $2 00 |
| Knife head. | 1 " | " 3 00 |
| Paring knives. | ¾ " | " 1 80 |
| Fork. | ⅝ " | " 2 00 |

## PEACH PARERS.

SCOTT'S PATTERN.

Pares Peaches and Apples

| | |
|---|---|
| No. | 100 |
| Weight lbs | 26 |
| Per dozen | $18 00 |
| Extra knife heads..... .....Per dozen, | 4 00 |
| Extra forks..... " | 4.00 |

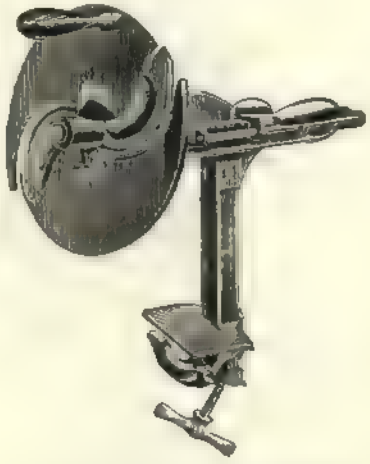
One dozen in box.

## POTATO PARERS.

Pares and Slices Potatoes for Saratoga Chips.

| | |
|---|---|
| No. | 10 |
| Weight, lbs. | 31 |
| Per dozen | $8.00 |

## SLICERS.



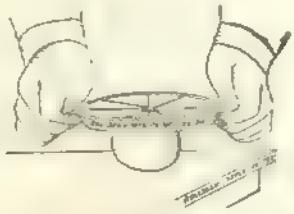
Slices All Kinds of Vegetables and Fruits.

Can be regulated to cut shavings as thin as tissue paper, to slices 1 inch thick.

| | |
|---|---|
| No. | 10 |
| Weight, lbs. | 7 |
| Per dozen | $24.00 |

One-twelfth dozen in box.

## APPLE CORERS.



Cuts Out Core and Slices into Eighths.

| | All Tin. | IC | XXX |
|---|---|---|---|
| Nos. | | 1 | 11 |
| Inch | | 6x3¼ | 6x3¼ |
| Weight, lbs | | ½ | 1¼ |
| Per dozen | | $0 80 | 1 25 |

One dozen in package.

Tin. Wood Handles.

| | |
|---|---|
| No. | 2 |
| Inch. | 6 |
| Weight, lbs. | 1¼ |
| Per dozen | $1 00 |

| | |
|---|---|
| No. | 7 |
| Weight, lbs. | 5 |
| Per dozen | $6 00 |

One dozen in box.

## VEGETABLE PARERS.

All Steel. Tinned
Can Be Used as an Apple Corer.

| | |
|---|---|
| No. | 1 |
| Inch. | 6 |
| Weight, lbs. | 1½ |
| Per dozen | $1 50 |

One dozen in box.

Steel Blade. Wood Handle
Pares and Slices.

| | |
|---|---|
| No. | 40 |
| Inch | 4½x2¼ |
| Weight, lbs | 1 |
| Per dozen | $1 75 |

One dozen on card.

## POTATO SCOOPS.

Steel Scoop. Wood Handle.

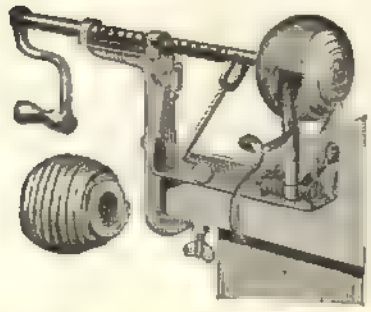
| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Scoop, inch | ½ | ⅝ | ¾ | 1 |
| Weight, lbs | ¾ | ¾ | ⅞ | 1 |
| Per dozen | $1.75 | 2 00 | 2.25 | 2.50 |

One dozen in package.

PACIFIC HARDWARE & STEEL COMPANY

# APPLE PARERS.

## WHITE MOUNTAIN.

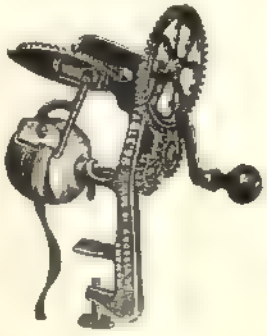


Pares, Cores and Slices

| No. | 2 |
|---|---|
| Weight, lbs. | 25 |
| Per dozen | $9 00 |

One dozen in box

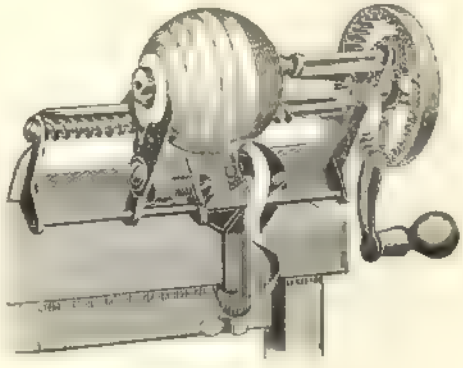
## TURN TABLE.



Parings Fall Clear of Working Parts
Pares Close to Ends.

| No. | 98 |
|---|---|
| Weight, lbs. | 30 |
| Per dozen | $10 00 |

## BAY STATE FAMILY.

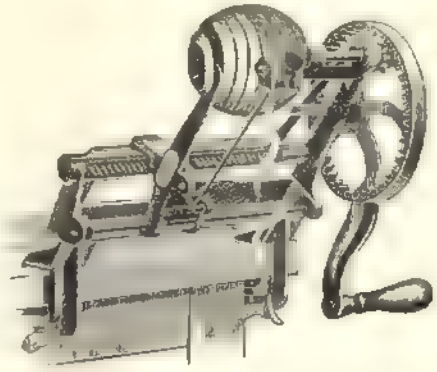


Pares, Cores and Slices.

| No. | 1 |
|---|---|
| Weight, lbs. | 30 |
| Per dozen | $21.00 |

One-half dozen in box.

## BAY STATE IMPROVED



Extra Large. Pares, Cores and Slices. With Push-Off Lever, for Throwing Off Apple After Paring.

| No. | 2 |
|---|---|
| Weight, lbs. | 75 |
| Per dozen | $38 00 |

One-half dozen in box.

## EXTRA PARTS FOR BAY STATE PARERS.

Family.

| | | | |
|---|---|---|---|
| Slicing knives. | Weight, ½ lb | Per dozen, | $1 80 |
| Knife head. | " ⅝ " | " | 3 00 |
| Paring knife | " ¼ " | " | 1 80 |
| Fork. | " ½ " | " | 1 80 |

Improved.

| | | | |
|---|---|---|---|
| Slicing knives | Weight, ½ lb. | Per dozen, | $2 00 |
| Knife head | " ⅝ " | " | 3 00 |
| Paring knives | " ¼ " | " | 1 80 |
| Fork. | " ½ " | " | 2 00 |

## PEACH PARERS.

SCOTT'S PATTERN.

Pares Peaches and Apples

| | |
|---|---|
| No. | 100 |
| Weight, lbs. | 36 |
| Per dozen | $18 00 |
| Extra knife heads, Per dozen, | 4 00 |
| Extra forks, " | 4 00 |

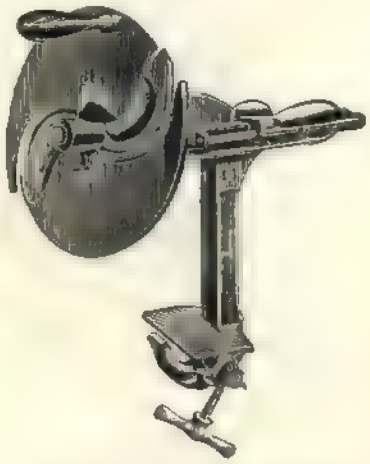
One dozen in box.

## POTATO PARERS.

Pares and Slices Potatoes for Saratoga Chips.

| | |
|---|---|
| No. | 10 |
| Weight, lbs. | 31 |
| Per dozen | $8.00 |

## SLICERS.



Slices All Kinds of Vegetables and Fruits.

Can be regulated to cut shavings as thin as tissue paper, to slices 1 inch thick.

| | |
|---|---|
| No. | 10 |
| Weight, lbs. | 7 |
| Per dozen | $24.00 |

One-twelfth dozen in box.

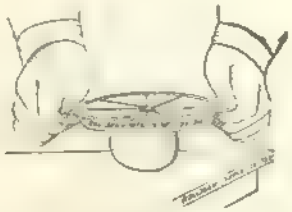
## APPLE CORERS.

| | All Tin. | IC | XXX |
|---|---|---|---|
| Nos. | | 1 | 11 |
| Inch | | 6x3¼ | 6x3¼ |
| Weight, lbs. | | ¾ | 1¼ |
| Per dozen | | $0 90 | 1 25 |

One dozen in package.

Tin. Wood Handles.

| | |
|---|---|
| No. | 2 |
| Inch | 6 |
| Weight, lbs. | 1¼ |
| Per dozen | $1 00 |



Cuts Out Core and Slices into Eighths.

| | |
|---|---|
| No. | 7 |
| Weight, lbs. | 5 |
| Per dozen | $6.00 |

One dozen in box.

## VEGETABLE PARERS.

All Steel. Tinned
Can Be Used as an Apple Corer.

| | |
|---|---|
| No. | 1 |
| Inch | 6 |
| Weight, lbs. | 1½ |
| Per dozen | $1 50 |

One dozen in box.

Steel Blade. Wood Handle.
Pares and Slices.

| | |
|---|---|
| No. | 40 |
| Inch | 4½x2½ |
| Weight, lbs. | 1 |
| Per dozen | $1 75 |

One dozen on card

## POTATO SCOOPS.

Steel Scoop. Wood Handle.

| Nos. | 1 | 2 | 3 | 4 |
|---|---|---|---|---|
| Scoop, inch | ½ | ⅝ | ¾ | 1 |
| Weight, lbs. | ¾ | ¾ | ⅞ | 1 |
| Per dozen | $1.75 | 2 00 | 2.25 | 2.50 |

One dozen in package.

PACIFIC HARDWARE & STEEL COMPANY

# WINCHESTER REPEATING RIFLES.

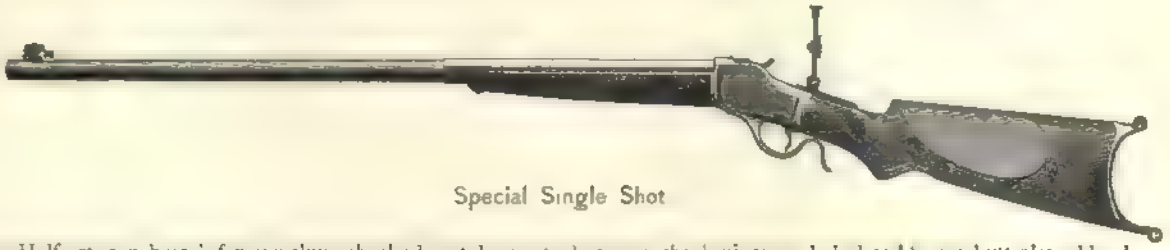
## MODEL 1895.

Sporting, 6 Shots.

The First Box Magazine, Lever Action Rifle ever put on the Market.

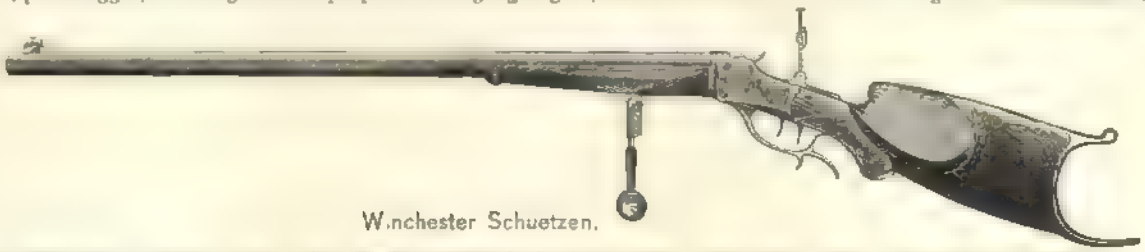
| | Caliber | Length of Barrel. | Style of Barrel. | Weight. | Each. |
|---|---|---|---|---|---|
| **No. 8110**— | 30 U. S. | 28 inch | Round only | 8¼ lbs. | $25.00 |
| **No. 8111**— | 303 British | 28 " | " | 8¼ lbs. | 25.00 |
| **No. 8112**— | 30 U. S. Carbine | 22 " | " | 8 lbs. | 25.00 |
| **No. 8113**— | 30 U. S. Musket. | 28 " | round barrel with bayonet, scabbard and sling strap | 9¼ lbs. | 33.00 |
| **No. 8114**— | 35 | 24 " | | 8½ lbs. | 25.00 |

# WINCHESTER SPECIAL TARGET MODELS.



Special Single Shot

**No. 8120**—Half octagon barrel, fancy walnut checked pistol grip stock, Swiss cheek piece, nickel-plated Swiss butt-plate, blued frame, plain trigger, mid-range vernier peep and wind gauge sights, without slot cut in barrel for rear right..... Each, $45.00



Winchester Schuetzen.

**No. 8125**—Octagon-barrel, 30-inch, No 3, fancy walnut checked pistol grip stock, Schuetzen pattern, cheek piece, Schuetzen butt-plate (Hoke pattern), blued frame, Schuetzen double set trigger, spur finger lever, palm rest, mid-range vernier peep and wind gauge sights, without slot cut in barrel for rear sight, weight 12 pounds.....Each, $63.00

# EXTRAS FOR WINCHESTER RIFLES.

All deviations from standard styles and sizes involve a large proportional outlay for hand labor, and when ordered, will be subject to the following charges:

For additional length of barrel and magazine on Repeating Rifles, except model 1895 add to price $1.00 per inch over the regular lengths, as quoted in preceding pages. Half magazine same price as full magazine.

For additional length of barrel on Model 1895, 38 and 40 caliber Rifles, add to price 50 cents per inch over the standard.

Barrels cannot be furnished longer than 36 inches.

Extra heavy barrels on Repeating Rifles, Models 1873 and 1886, round or octagon, increasing the weight of the gun from one to two pounds, can be furnished at an additional cost of $4.00.

Butt stocks of special shape, involving change in either length or drop from standard, $10.00.

| | | | |
|---|---|---|---|
| Full Nickel Plating | $ 4 00 | Spur Finger Lever on single shot rifle | $ 4 00 |
| Nickel Plating Trimmings | 2 50 | Schuetzen Butt-plate on single shot rifle | 4 00 |
| Silver " " | 4 00 | Swiss Butt-plates | 2 00 |
| Gold " " | 10 00 | Cheek Piece on fancy stock | 4 00 |
| Set Triggers on Repeating Rifles, model 1873 | 3 00 | Leaving off Rear Sight Slot, or changing position of Rear Sight | 1 00 |
| Double Set Triggers on models 1886, 1892, and 1894 | 3 00 | Blank Piece to fill Back Sight Seat | 25 |
| Regular " " single shot rifles | 2 50 | Case-hardening on models 1873, and 1892 | 1 00 |
| Schuetzen Double Set Triggers on single shot rifles | 6 00 | Extra finished Plain Stocks on Case-hardened Guns only | 2 00 |
| Fancy Walnut Stock and Forearm | 5 00 | Sling Strap | 50 |
| Checking Butt " " " | 5 00 | Screw Eyes with swivel snap hook and sling | 1 50 |
| Fancy Walnut " " " checked | 10 00 | Matting Barrels | 5 00 |
| Pistol Grip Stock and Forearm, fancy walnut, checked | 15 00 | Interchangeable Barrels, complete with magazine, forearm, etc., for models 1886, 1892, and 1894, Take Down | 12.00 |
| " " " of plain walnut, not checked | 2 50 | | |
| " " " and Forearm of plain walnut, checked | 5 00 | | |
| Palm Rest on single shot rifle | 6 00 | | |

Extra barrels must in all cases be fitted at the factory

# WINCHESTER SINGLE SHOT RIFLES.

Made in all Desirable Calibers as Described Below.

Plain Sporting.

Octagon barrel. Plain trigger. Plain walnut stock. Rifle or shotgun butt stock. Blued frame.

All calibers..... .....Each, $15.00

| No. of Rifle. | Cartridges | Standard Length of Barrel | Standard Size of Barrel | Weight of Rifle with Octagon Barrel, about |
|---|---|---|---|---|
| | **Rim Fire** | | | |
| 3500 | 22 Short | 24 inch | No. 1 | 6 lbs., 14 ozs. |
| 3501 | 22 Long | 24 " | " 1 | 6 " 14 " |
| 3502 | 22 Long Rifle | 24 " | " 1 | 6 " 14 " |
| 3503 | 22 Winchester | 24 " | " 1 | 7 " 2 " |
| 3504 | 25 Stevens | 26 " | " 1 | 7 " |
| 3505 | 32 Short | 26 " | " 1 | 6 " 12 " |
| 3506 | 32 Long | 26 " | " 1 | 6 " 12 " |
| | **Center Fire.** | | | |
| 3507 | 22 Win. Sing. Shot | 26 inch | No. 1 | 7 lbs. |
| 3508 | 25-20 Single Shot | 28 " | " 1 | 7 " |
| 3509 | 30 U. S. Army | 30 " | " 3 | 9¼ " |
| 3510 | 32 W. C. F. | 28 " | " 1 | 7 " |
| 3511 | 32 Ideal | 28 " | " 1 | 7 " |
| 3512 | 32.40 | 30 " | " 3 | 9½ " |
| 3513 | 38 W. C. F. | 28 " | " 1 | 9½ " |

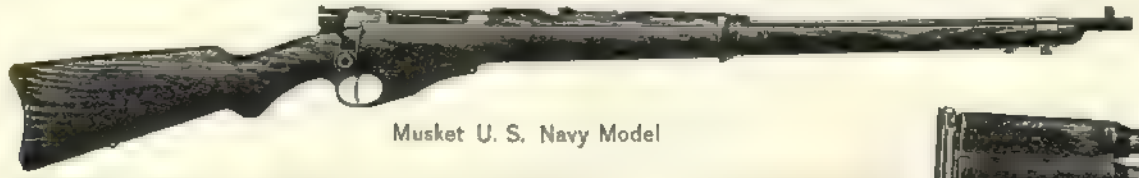
| No. of Rifle. | Cartridges. | Standard Length of Barrel | Standard Size of Barrel | Weight of Rifle with Octagon Barrel, about |
|---|---|---|---|---|
| | **Center Fire.** | | | |
| 3514 | 38-55 | 30 inch | No. 3 | 6½ lbs. |
| 3515 | 38-56 W. C. F. | 30 " | " 3 | 9½ " |
| 3516 | 38 Express | 30 " | " 3 | 9½ " |
| 3517 | 40-70 Straight | 30 " | " 3 | 9½ " |
| 3518 | 40-70 Ballard | 30 " | " 3 | 9½ " |
| 3519 | 40-90 Ballard | 30 " | " 3 | 9½ " |
| 3520 | 40-90 Sharps | 30 " | " 3 | 9½ " |
| 3521 | 40 Express | 30 " | " 3 | 9½ " |
| 3522 | 40-60 W. C. F. | 30 " | " 3 | 9½ " |
| 3523 | 40-65 W. C. F. | 30 " | " 3 | 9½ " |
| 3524 | 40-82 W. C. F. | 30 " | " 3 | 9½ " |
| 3525 | 44 W. C. F. | 28 " | " 1 | 6½ " |
| 3526 | 45-60 W. C. F. | 30 " | " 3 | 9 " |
| 3527 | 45-75 W. C. F. | 30 " | " 3 | 9 " |
| 3528 | 45-90 W. C. F. | 30 " | " 3 | 9 " |
| 3529 | 45-70 | 30 " | " 3 | 9 " |
| 3530 | 45 Express | 30 " | " 3 | 9 " |

**Extras for Single Shot Rifle.**

Set triggers for all guns taking rim fire cartridges, and for 22 W. C. F., 25-20, 32 Ideal, 32 W. C. F., 38 W. C. F., and 44 W. C. F., $2.00.
Schuetzen double set triggers, $6.00 extra.
An extra charge of $2.00 will be made for No. 4 barrel. An extra charge of $10.00 will be made for No. 5 barrel.
Standard length barrels will be sent on all orders unless otherwise specified.

# LEE STRAIGHT PULL REPEATING RIFLES.

Made for 6 m-m (236) Cartridges



Musket U. S. Navy Model

**No. 3150**—28-inch round nickel steel barrel. 5 shots. Weight, 8½ lbs..... .....Each, $32.00

Bayonet.

**No. 08150**—Knife bayonet and scabbard, U. S. Navy pattern..... .....Each, $6.00

Clip of Cartridges.

Sporting.

**No. 3160**—24-inch round nickel steel barrel. 5 shots. Weight, 7½ lbs... ...Each, $32.00

PACIFIC HARDWARE & STEEL COMPANY

# WINCHESTER REPEATING RIFLES.

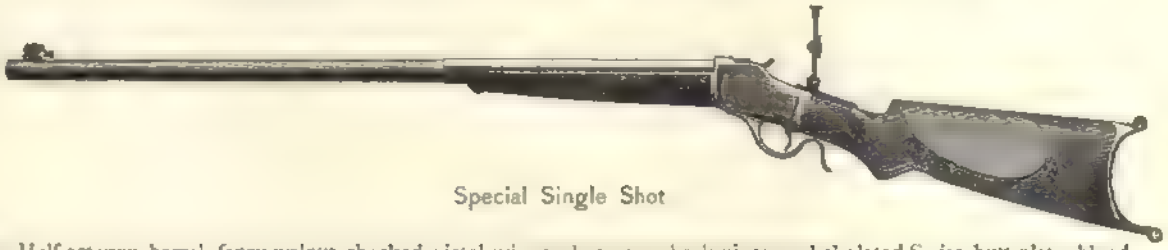
## MODEL 1895.

Sporting, 6 Shots.

The First Box Magazine, Lever Action Rifle ever put on the Market.

| | Caliber | Length of Barrel | Style of Barrel | Weight | Each. |
|---|---|---|---|---|---|
| **No. 3110**— | 30 U. S. | 28 inch. | Round only. | 8¼ lbs. | $25 00 |
| **No. 3111**— | 303 British | 28 " | " | 8¼ lbs. | 25 00 |
| **No. 3112**— | 30 U. S. Carbine | 22 " | " | 8 lbs. | 25 00 |
| **No. 3113**— | 30 U. S. Musket. | 28 " | round barrel with bayonet, scabbard and sling strap. | 9¼ lbs. | 33.00 |
| **No. 3114**— | 35 | 24 " | | 8½ lbs. | 25 00 |

# WINCHESTER SPECIAL TARGET MODELS.



Special Single Shot

**No. 3120**—Half-octagon barrel, fancy walnut checked pistol grip stock, Swiss cheek piece, nickel-plated Swiss butt-plate, blued frame, plain trigger, mid-range vernier peep and wind gauge sights, without slot cut in barrel for rear right.....Each, $45 00

Winchester Schuetzen.

**No. 3125**—Octagon-barrel, 30-inch, No. 3, fancy walnut checked pistol grip stock, Schuetzen pattern, cheek piece, Schuetzen butt-plate (Helm pattern), blued frame, Schuetzen double set trigger, spur finger lever, palm rest, mid-range vernier peep and wind gauge sights, without slot cut in barrel for rear sight, weight 12 pounds.....Each, $63.00

# EXTRAS FOR WINCHESTER RIFLES.

All deviations from standard styles and sizes involve a large proportional outlay for hand labor, and when ordered, will be subject to the following charges:

For additional length of barrel and magazine on Repeating Rifles, except model 1895, add to price $1.00 per inch over the regular lengths, as quoted in preceding pages. Half magazine same price as full magazine.

For additional length of barrel on Model 1895, 38 and 40 caliber Rifles, add to price 50 cents per inch over the standard.

Barrels cannot be furnished longer than 36 inches.

Extra heavy barrels on Repeating Rifles, Models 1873 and 1886, round or octagon, increasing the weight of the gun from one to two pounds, can be furnished at an additional cost of $4 00.

Butt stocks of special shape, involving change in either length or drop from standard, $10.00.

| | | | |
|---|---|---|---|
| Full Nickel Plating | $ 4 00 | Spur Finger Lever on single shot rifle | $ 4 00 |
| Nickel Plating Trimmings | 2 50 | Schuetzen Butt-plate on single shot rifle | 4 00 |
| Silver " " | 4 00 | Swiss Butt-plates | 2 00 |
| Gold " " | 10 00 | Cheek Piece on fancy stock | 4 00 |
| Set Triggers on Repeating Rifles, model 1873 | 3 00 | Leaving off Rear Sight Slot, or changing position of Rear Sight | 1 00 |
| Double Set Triggers on models 1886, 1892, and 1894 | 3 00 | Blank Piece to fill Back Sight Seat | 25 |
| Regular " " " single shot rifles | 2 00 | Case-hardening on models 1873, and 1892 | 1 00 |
| Schuetzen Double Set Triggers on single shot rifles | 6 00 | Extra finished Plain Stocks on Case-hardened Guns only | 2 00 |
| Fancy Walnut Stock and Forearm | 5 00 | Sling Strap | 50 |
| Checking Butt " " " | 5 00 | Screw Eyes with swivel snap hook and sling | 1 50 |
| Fancy Walnut " " " checked | 10 00 | Matting Barrels | 5 00 |
| Pistol Grip Stock and Forearm, fancy walnut, checked | 15.00 | Interchangeable Barrels, complete with magazine, forearm, etc., for models 1886, 1892, and 1894, Take Down | 12 00 |
| " " " of plain walnut, not checked | 2 50 | | |
| " " " and Forearm of plain walnut, checked | 5 00 | | |
| Palm Rest on single shot rifle | 6 00 | | |

Extra barrels must in all cases be fitted at the factory.

# WINCHESTER SINGLE SHOT RIFLES.

Made in all Desirable Calibers as Described Below.

Plain Sporting.

Octagon barrel Plain trigger Plain walnut stock. Rifle or shotgun butt stock. Blued frame.

All calibers.....Each, $15.00

| No. of Rifle. | Cartridges | Standard Length of Barrel | Standard Size of Barrel | Weight of Rifle with Octagon Barrel, about |
|---|---|---|---|---|
| | Rim Fire | | | |
| 3500 | 22 Short | 24 inch | No. 1 | 6 lbs., 14 ozs. |
| 3501 | 22 Long | 24 " | " 1 | 6 " 14 " |
| 3502 | 22 Long Rifle | 24 " | " 1 | 6 " 14 " |
| 3503 | 22 Winchester | 24 " | " 1 | 7 " 2 " |
| 3504 | 25 Stevens | 26 " | " 1 | 7 " |
| 3505 | 32 Short | 26 " | " 1 | 6 " 12 " |
| 3506 | 32 Long | 26 " | " 1 | 6 " 12 " |
| | Center Fire | | | |
| 3507 | 22 Win. Sing. Shot | 26 inch | No. 1 | 7 lbs. |
| 3508 | 25-20 Single Shot | 28 " | " 1 | 7 " |
| 3509 | 30 U. S. Army | 30 " | " 3 | 9¼ " |
| 3510 | 32 W. C. F. | 28 " | " 1 | 7 " |
| 3511 | 32 Ideal | 28 " | " 1 | 7 " |
| 3512 | 32-40 | 30 " | " 3 | 9¼ " |
| 3513 | 38 W. C. F. | 28 " | " 1 | 9½ " |

| No. of Rifle | Cartridges. | Standard Length of Barrel | Standard Size of Barrel | Weight of Rifle with Octagon Barrel, about |
|---|---|---|---|---|
| | Center Fire | | | |
| 3514 | 38-55 | 30 inch | No. 3 | 6½ lbs. |
| 3515 | 38-56 W. C. F. | 30 " | " 3 | 9½ " |
| 3516 | 38 Express | 30 " | " 3 | 9½ " |
| 3517 | 40-70 Straight | 30 " | " 3 | 9½ " |
| 3518 | 40-70 Ballard | 30 " | " 3 | 9½ " |
| 3519 | 40-90 Ballard | 30 " | " 3 | 9½ " |
| 3520 | 40-90 Sharps | 30 " | " 3 | 9½ " |
| 3521 | 40 Express | 30 " | " 3 | 9½ " |
| 3522 | 40-60 W. C. F. | 30 " | " 3 | 9½ " |
| 3523 | 40-65 W. C. F. | 30 " | " 3 | 9½ " |
| 3524 | 40-82 W. C. F. | 30 " | " 3 | 9½ " |
| 3525 | 44 W. C. F. | 28 " | " 1 | 6½ |
| 3526 | 45-60 W. C. F. | 30 | " 3 | 9 " |
| 3527 | 45-75 W. C. F. | 30 | " 3 | 9 " |
| 3528 | 45-90 W. C. F. | 30 | " 3 | 9 " |
| 3529 | 45-70 | 30 " | " 3 | 9 " |
| 3530 | 45 Express | 30 " | " 3 | 9 " |

Extras for Single Shot Rifle.

Set triggers for all guns taking rim fire cartridges, and for 22 W. C. F., 25-20, 32 Ideal, 32 W. C. F., 38 W. C. F., and 44 W. C. F., $2.00. Schuetzen double set triggers, $6.00 extra.

An extra charge of $2.00 will be made for No. 4 barrel. An extra charge of $10.00 will be made for No. 5 barrel.

Standard length barrels will be sent on all orders unless otherwise specified.

# LEE STRAIGHT PULL REPEATING RIFLES.

Made for 6 m-m (236) Cartridges

Musket U. S. Navy Model

**No. 3150**—28-inch round nickel steel barrel. 5 shots. Weight, 8¼ lbs.....Each, $32.00

Bayonet.

**No. 08150**—Knife bayonet and scabbard, U. S. Navy pattern.....Each, $6.00

Clip of Cartridges.

Sporting.

**No. 3160**—24-inch round nickel steel barrel. 5 shots. Weight, 7½ lbs.....Each, $32.00

# WINCHESTER REPEATING RIFLES.

## MODEL 1873.

Sporting

The first repeating rifle made to handle center fire cartridges.

| Nos | Caliber | Length of Barrel | Style of Barrel | Magazine | Capacity of Magazine | Weight | Each |
|---|---|---|---|---|---|---|---|
| 3000 | 22 short rim fire | 24 inch | Octagon | Full | 25 cartridges | 8¼ lbs | $19 50 |
| 3001 | 22 long " | 24 " | " | " | 20 " | 9 " | 19 50 |
| 3002 | 32 W. C. F. | 24 " | " | " | 14 " | 9 " | 19.50 |
| 3003 | 38 W. C. F. | 24 " | " | " | 14 " | 9 " | 19.50 |
| 3004 | 44 | 24 " | " | " | 14 " | 9 " | 19.50 |

## MODEL 1886.

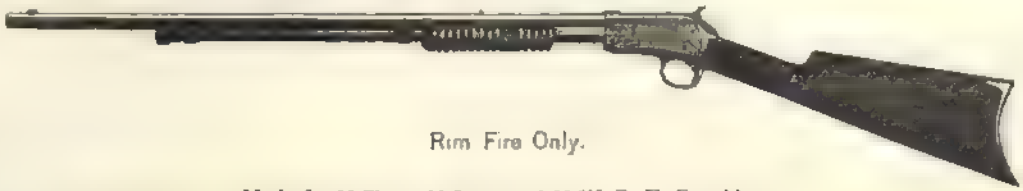
Sporting

One of the strongest repeating rifles made, and will successfully stand the strain of shooting tremendous charges of powder and lead.

| Nos. | Caliber. | Length of Barrel. | Style of Barrel. | Magazine. | Capacity of Magazine. | Weight. | Each. |
|---|---|---|---|---|---|---|---|
| 3009 | 33 | 24 inch | Round | Full or half | 7 and 3 cartridges | 7¾ lbs | $25 00 |
| 3010 | 38–56 | 26 " | Octagon | Full | 7 cartridges | 8½ " | 21 00 |
| 3011 | 38–70 | 26 " | " | " | 7 " | 8½ " | 21 00 |
| 3012 | 40–65 | 26 " | " | " | 7 " | 8½ " | 21 00 |
| 3013 | 40–82 | 26 " | " | " | 7 " | 8½ " | 21 00 |
| 3014 | 45–70 | 26 " | " | " | 7 " | 8½ " | 21 00 |
| 3015 | 45–90 | 26 " | " | " | 7 " | 8½ " | 21 00 |

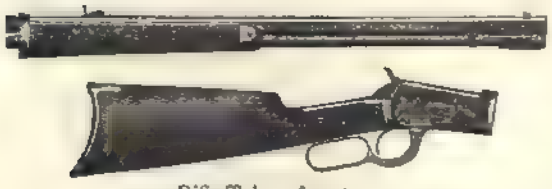
Take down, all calibers except 33, 26-inch barrel only.....Each, $25 00
Take down, 33 caliber, 24-inch round barrel, full or half magazine, shotgun butt stock..... " 30.00

## MODEL 1890 TAKE DOWN.



Rim Fire Only.

Made for 22 Short, 22 Long and 22 W. R. F. Cartridges.



Rifle Taken Apart.

Model 1890, 22 caliber short, long and W. R. F. are made in 24-inch octagon barrel only. A barrel chambered for 22 short will shoot that cartridge only. The same term applies to 22 long and W. R. F.

**No. 3025**—22 caliber short.....Each, $16 00
**No. 3026**—22 " long..... " 16 00
**No. 3027**—22 " W. R. F..... " 16.00

Extras for Winchester Rifles, page 891.

# WINCHESTER REPEATING RIFLES.

## MODEL 1892.

Sporting.

| No. | Caliber | Length of Barrel | Style of Barrel. | Magazine. | Capacity of Magazine. | Weight | Each |
|---|---|---|---|---|---|---|---|
| 3050 | 25–20 | 24 inch | Round | Full | 14 cartridges | 6¾ lbs | $18 00 |
| 3051 | 25–20 | 24 " | Octagon | " | 14 " | 7 " | 19 50 |
| 3052 | 25–20 | 26 " | " | " | 14 " | 7¼ " | 21 50 |
| 3053 | 32 W. C. F. | 24 " | Round | " | 14 " | 6¾ " | 18 00 |
| 3054 | 32 " | 24 " | Octagon | " | 14 " | 7 " | 19 50 |
| 3055 | 32 " | 26 " | " | " | 14 " | 7¼ " | 21 50 |
| 3056 | 38 " | 24 " | Round | | 14 " | 6¾ " | 18 00 |
| 3057 | 38 " | 24 " | Octagon | " | 14 " | 7 " | 19 50 |
| 3058 | 38 " | 26 " | " | " | 14 " | 7¼ " | 21 50 |
| 3059 | 44 " | 24 " | " | " | 14 " | 6¾ " | 19 50 |
| 3060 | 44 " | 26 " | " | " | 14 " | 7 " | 21 50 |
| 3061 | 25–20 Carbine | 20 " only | Round only | " | 12 " | 5¾ " | 17 50 |
| 3062 | 38 " | 20 " | " " | " | 12 " | 5¾ " | 17 50 |
| 3063 | 44 " | 20 " | " " | " | 12 " | 5¾ " | 17 50 |

Take Down Sporting Rifles, model 1892, 24-inch barrel only. ....Each $25 00

## MODEL 1894.

Sporting.

| No. | Caliber. | Length of Barrel. | Style of Barrel. | Magazine. | Capacity of Magazine. | Weight | Each |
|---|---|---|---|---|---|---|---|
| 3075 | 25–35 | 26 inch | Round | Full | 9 cartridges | 7¾ lbs | $23 00 |
| 3076 | 25–35 | 26 | Octagon | " | 9 " | 7¾ " | 23 00 |
| 3077 | 30–30 | 26 | Round | " | 9 " | 7¾ " | 23 00 |
| 3078 | 30–30 | 26 | Octagon | " | 9 " | 7¾ " | 23 00 |
| 3079 | 32–40 | 26 " | Round | " | 9 " | 7½ " | 18 00 |
| 3080 | 32–40 | 26 " | Octagon | " | 9 " | 7¾ " | 19 50 |
| 3081 | 38–55 | 26 " | Round | " | 9 " | 7½ " | 18 00 |
| 3082 | 38–55 | 26 " | Octagon | " | 9 " | 7¾ " | 19 50 |
| 3083 | 25–35 Carbine | 20 " only | Round only | " | 7 " | 6¼ " | 21 00 |
| 3084 | 30–30 " | 20 " | " " | " | 7 " | 6¼ " | 21 00 |
| 3085 | 32–40 " | 20 " | " " | " | 7 " | 6 " | 17 50 |
| 3086 | 38–55 " | 20 " | " " | " | 7 " | 6 " | 17 50 |
| 3087 | 25–35 Take down | 26 " only | Octagon | " | 9 " | 7¾ " | 28 00 |
| 3088 | 30–30 " " | 26 " | " | " | 9 " | 7¾ " | 28 00 |
| 3089 | 32–40 " | 26 " | " | " | 9 " | 7¾ " | 25 00 |
| 3090 | 38–55 " " | 26 " | " | " | 9 " | 7¾ " | 25 00 |

Sight used on Model 1894 Special.

## SPECIAL MODEL 1894.

Made for 32 Caliber Winchester Special Smokeless Cartridge and 26-inch barrel only.

No. 3095—Round barrel, full magazine, capacity 9 cartridges, weight 6¾ lbs. ..... Each, $23 00
No. 3096—Octagon " " " " 9 " 7 " ..... " 23 00
No. 3097—Take down, octagon barrel, full magazine, capacity 9 cartridges, weight 7 lbs. ..... " 25 00

Extras for Winchester Rifles, page 891.

# Winchester Rifle Sights.

### Sporting Front Sight.

**No. 31**..... Each, $0 30

### Knife Blade Front Sight.

German Silver or Ivory

**No. 35**..... Each, $0 50

### Rocky Mountain Front Sight.

Front View

Side View

**No. 120**..... Each, $0 50

### Carbine Rear Sight.

For Models 1866 and 1873.

**No. 150**.....Each, $1 25

When ordering please state for which model sight is wanted as the graduations vary for the different styles.

### Globe Sight with Interchangeable Disc.

**No. 29**.....Each, $1 25

Has standard size base and is used principally for fine target shooting.

### Beach Combination Sight

As Open

As Globe

**No 39**.....Each. $1 00

### Sporting Rear Sight.

**No. 16**.....Each. $0 80

**Elevator for Sporting Rear Sight**..... " 20

The slide on the front of the horn of this sight can be raised and lowered by easing the adjustment screw shown in the cut. This permits a very fine adjustment of the sight.

### Winchester Express.

Front Sight.

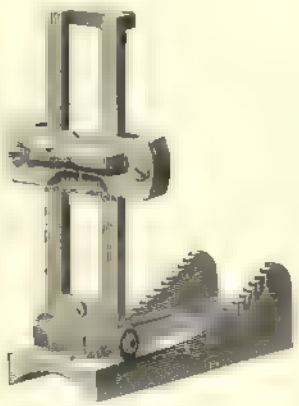
Rear Sight.

**No. 33**..... Each, $0 50

**No. 30**..... " 1 50

Adapted to the .25-35 and .30-30 calibre Model 1894 Winchester. This sight has three leafs which allow an adjustment from 50 to 300 yards.

### Military Wind Gauge Sight.

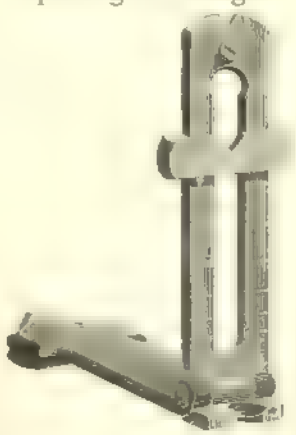


**No 42**.....Each, $2 00

### Wind Gauge Sight with Spirit Level and Three Discs.

| | | | |
|---|---|---|---|
| **No. 18**—With Spirit Level | Each, | $4 00 |
| **No. 19** Without " " | " | 3 00 |
| Spirit Level | " | 1 00 |
| Spirit Level Bulb | " | 15 |
| Extra Discs | " | 25 |
| Traverse Screw | " | 25 |
| Base | " | 75 |
| Screw Caps to Level | " | 15 |

### Sporting Leaf Sight.



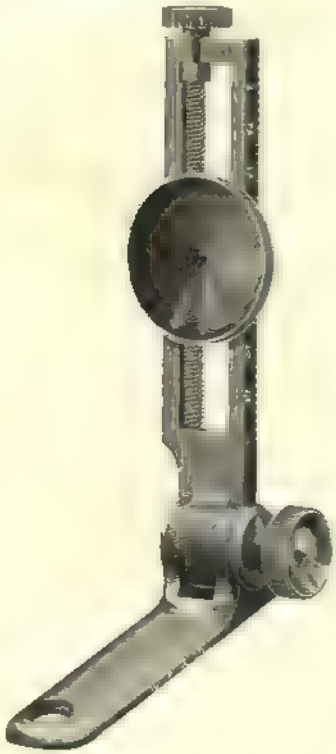
**No. 32**.....Each, $1 50

For Winchester and other rifles. Used where greater range and elevation is wanted than the Sporting Rear will give.

In ordering sights always give make, model and caliber of rifle or revolver for which they are wanted, as different barrels of the same make and model sometimes take different sights. For instance, the 30 caliber model 1894 Winchester takes a higher front sight and a lower rear sight than the .32-40 and the .38-55 of the same model. This rule will also apply to other makes and styles.

# Winchester Rifle Sights.

## Mid Range Vernier Peep Sight.



**No. 47**— . . . . Each, $4 00
Thumb Screw . 75
Other Parts Same as Graduated Peep

## Winchester Model 1890.

**No. 90**—Front Sight. . ..... Each, $0 30

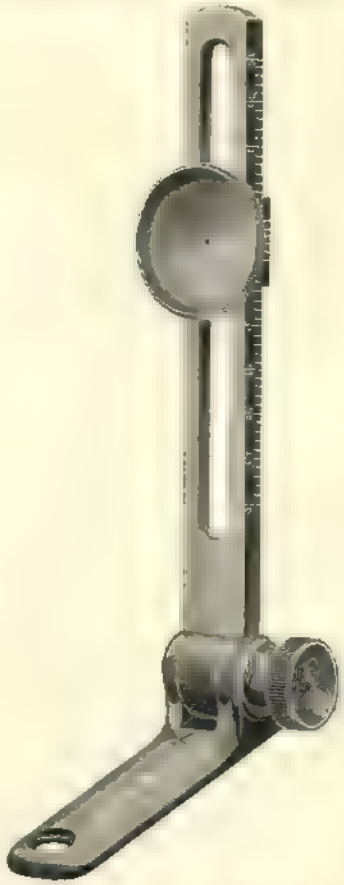
## Winchester Model 1890.

**No. 91** .. ..... Each. $0 60
Especially adapted to Model 1890 .22 caliber Winchester rifle and can be adjusted for elevation by simply turning small screw directly in front of horn

## Winchester Special Model, .32 Caliber. Model 1894.

**No. 132**—Rear Sight for Smokeless and Black Powder..Each, $3 00

## Graduated Peep Sight.



| | | | |
|---|---|---|---|
| **No. 49** | $3 00 | Leaf | $0 75 |
| Extra Disc | 75 | Leaf, with Disc and Nut, | 2 00 |
| Extra Disc Nut | 25 | Base Screws | 10 |
| Base Only | 1 50 | Slide | 25 |
| Thumb Screw | 25 | Base Spring | 10 |

# Stevens Wind-gauge Vernier Sights.

## Eye Cup.

No. 10.

Stevens Vernier Wind-gauge Sight has the Combination Eye-Cup, which permits several changes in size of aperture. The sight is made with extreme accuracy, and is finely finished. This is the neatest, safest and most convenient Vernier sight in use.

This Eye-Cup (as represented in cut) has apertures of six different sizes, any of which can be placed upon the center in the most perfect manner and quickly, thus enabling the rifleman to select a size exactly fitting the eye for any kind of light, and also to match up with the front open hunting sight, the shaded bead or aperture for fine target work.

We can fit this Eye-Cup to any peep sight. There are now in use so many different kinds of rear peep sights that it is impossible to fit the Eye-Cup without having the sight.

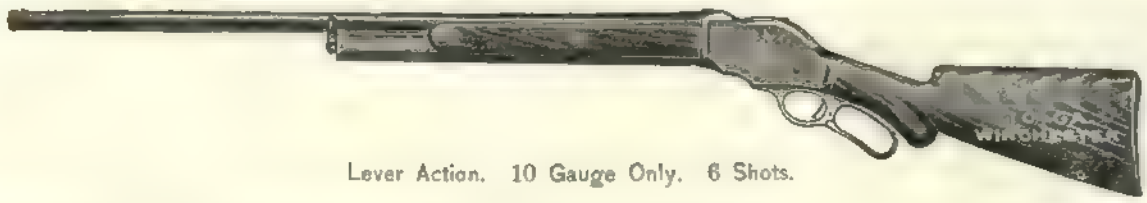
We would, therefore, ask all who wish, to send their sights to us, and we will return the same nicely fitted with one of the new Eye-Cups at the following prices.

| | | | |
|---|---|---|---|
| **No 10**—With Combination Eye-Cup | | Each, | $6 00 |
| **No. 15** " Plain " | | " | 5 00 |
| Combination Eye-Cup, Fitted to Stevens Vernier Sights | | " | 1 50 |
| " " " Sights of Other Makes | | " | 2 00 |

In Ordering Sights, Name Model, System, and Caliber of Rifle

# WINCHESTER REPEATING SHOTGUNS.

## MODEL 1901.

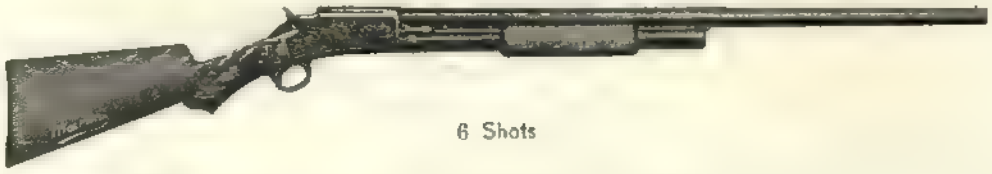


Lever Action. 10 Gauge Only. 6 Shots.

**No. 1032**—32-inch rolled steel barrel, plain pistol grip stock, not checkered, plain finished.....Each, $30 00
Weight, about 8 lbs.

# MARLIN FIRE ARMS CO. REPEATING SHOTGUNS.

Model 1898. Made Only in Take Down. 12 Gauge



6 Shots

**Grade A**—30 or 32-inch barrel of special rolled steel, walnut stock, rubber butt-plate. Weight, 7 to 7¼ lbs.....Each, $ 24 00

**Grade A B**—Brush or Riot Gun, for bird shooting in thickly wooded sections, also for shooting with buckshot. 26-inch barrel only. Weight, 6¾ lbs.....Each, 24 00

**Grade C**—30-inch special smokeless steel barrel, figured walnut stock and fore-end, hand-engraved ornamenting. Weight, 6⅞ to 7⅛ lbs.....Each, 40 00

**Grade D**—30-inch fine Damascus barrel, Circassian walnut stock and fore-end, hand checked. The frame is elaborately engraved with fine hand work. Weight, 6⅞ to 7⅛ lbs.....Each, 100 00

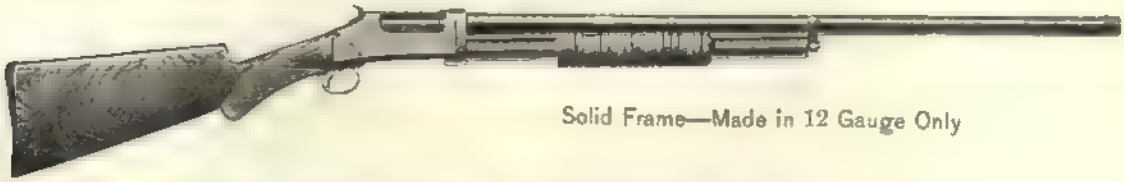
# SPENCER REPEATING SHOTGUNS.

Take Down.

**Grade E**—Fine twist barrels, 30 inches, 12 gauge only, walnut stock, sliding fore-end, case hardened frame.....Each, $25.00
Weight, about 7 lbs.

# WINCHESTER REPEATING SHOTGUNS.

## MODEL 1897.



Solid Frame—Made in 12 Gauge Only

**No. 197**—Plain finished, model 1897, 30 or 32-inch rolled steel barrel, pistol grip stock, sliding fore-end, weight, about 7¼ pounds, six shots, length of stock 13¾ inches, drop at comb 1⅝ inches, drop at heel 2⅝ inches.....Each, $25 00

**No. 197 F**—Fancy finished, model 1897, 30 or 32 inch 4-blade Damascus barrel, fancy walnut stock, pistol grip checked, sliding fore-end, rubber butt-plate, weight, about 8 pounds, length of stock 13¾ inches, drop at comb 1⅝ in., drop at heel 2½ in.....Each, 62 00

**No. 197 B**—Brush Gun, model 1897, is designed for bird shooting in field. Is made with a 20-inch, light weight rolled steel cylinder bore barrel. The magazine is shorter than that of the regular model 1897 shotgun, holding four instead of five cartridges. The stock is made of plain wood, pistol grip, rubber butt plate. Weight 7 pounds, bored to use either black or smokeless powder equally well, and any load of any of the standard smokeless powders that can be properly loaded in a 2¾ inch 12 gauge shell can be used with perfect safety.....Each, 27 00

## RIOT.

Buckshot Cartridge.

**No. 197 R**—20-inch rolled steel cylinder bore barrel, bored to shoot buckshot. These guns are used by sentries in the U. S. Army, express messengers, watchmen, prison guards, train hands and by many people for home defense. The Riot Gun has the same action as the regular model 1897. The magazine holds six cartridges which, with one in the chamber, makes a total of six at the command of the shooter. Weight, about 7 pounds.....Each, $25 00

## TAKE DOWN.

Gun taken apart.

**No. 197 T**—12 gauge, 28, 30 and 32 inch barrels; 16 gauge, 28 inch barrels only. General description same as plain finish solid gun. Weight, about 7¼ pounds.....Each, $27 00

**NO. 197 TB**—Take Down Brush Gun, 12 gauge, 26 inch barrels. General description same as solid Brush gun. Weight about 7¼ pounds.....Each, 29.00

Extra barrels can be furnished, but will have to be fitted at factory

## TRAP AND PIGEON.

Take Down Trap

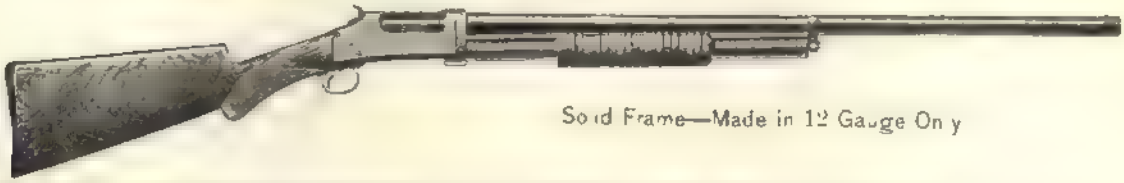
**No. 197 TT**—12 gauge take down style only. 30 inch rolled steel barrel, selected fancy walnut hand made, oil-finished stock, with straight grip and checked rubber butt-plate. The fore-arm is of fancy walnut, handsomely checkered. Weight of gun about 7¼ pounds.....Each, $ 47.00

Take Down Pigeon.

**No. 197 TP**—28 inch barrel only. Weight and style same as Trap gun. Hand-made and hand engraved, made in 12 gauge only.....Each, 100.00

# WINCHESTER REPEATING SHOTGUNS.

## MODEL 1897.



Solid Frame—Made in 12 Gauge Only

**No. 197**—Plain finished, model 1897, 30 or 32-inch rolled steel barrel, pistol grip stock, sliding fore-end, weight, about 7¼ pounds, six shots, length of stock 13¾ inches, drop at comb 1⅝ inches, drop at heel 2½ inches..... Each, $25.00

**No. 197 F**—Fancy finished, model 1897, 30 or 32 inch 4-blade Damascus barrel, fancy walnut stock, pistol grip checked, sliding fore-end, rubber butt-plate, weight, about 8 pounds, length of stock 14¼ inches, drop at comb 1⅝ in., drop at heel 2½ in.. ... Each, 62.00

**No. 197 B**—Brush Gun, model 1897, is designed for bird shooting in field. Is made with a 26-inch, light weight rolled steel cylinder bore barrel. The magazine is shorter than that of the regular model 1897 shotgun, holding four instead of five cartridges. The stock is made of plain wood, pistol grip, rubber butt-plate. Weight 7 pounds, bored to use either black or smokeless powder equally well, and any load of any of the standard smokeless powders that can be properly loaded in a 2¾ inch 12 gauge shell can be used with perfect safety ..... Each, 27.00

## RIOT.

Buckshot Cartridge

**No. 197 R**—20-inch rolled steel cylinder bore barrel, bored to shoot buckshot. These guns are used by sentries in the U. S. Army, express messengers, watchmen, prison guards, train hands, and by many people for home defense. The Riot Gun has the same action as the regular model 1897. The magazine holds five cartridges, which, with one in the chamber, makes a total of six at the command of the shooter. Weight, about 7 pounds. ..... Each, $25.00

## TAKE DOWN.

Gun taken apart.

**No. 197 T**—12 gauge, 28, 30 and 32 inch barrels; 16 gauge, 28 inch barrels only. General description same as plain finish solid gun. Weight, about 7¼ pounds. ..... Each, $27.00

**NO. 197 TB**—Take Down Brush Gun, 12 gauge, 26 inch barrels. General description same as solid Brush gun. Weight about 7¼ pounds..... Each, 29.00

Extra barrels can be furnished, but will have to be fitted at factory

## TRAP AND PIGEON.

Take Down Trap

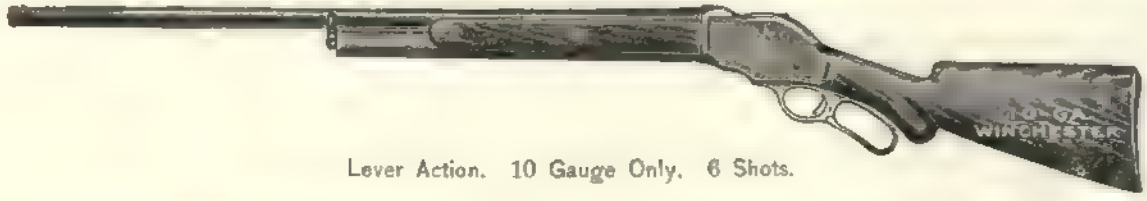
**No. 197 TT**—12 gauge take down style only. 30 inch rolled steel barrel, selected fancy walnut hand-engraved, oil-finished stock, with straight grip and checked rubber butt-plate. The fore-arm is of fancy walnut handsomely checkered. Weight of gun about 7¼ pounds..... Each, $ 47.00

Take Down Pigeon.

**No. 197 TP**—28 inch barrel only. Weight and style same as Trap gun. Hand-made and hand-engraved; made in 12 gauge only ..... Each, 100.00

# WINCHESTER REPEATING SHOTGUNS.

## MODEL 1901.

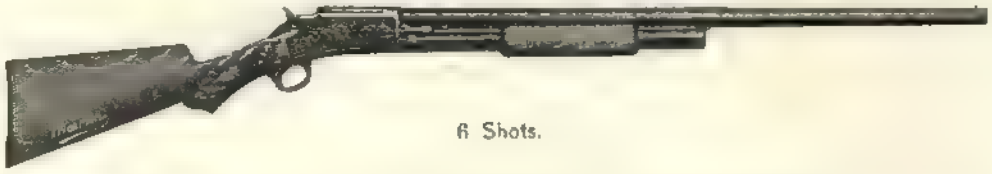



Lever Action. 10 Gauge Only. 6 Shots.

**No. 1032**—32-inch rolled steel barrel, plain pistol grip stock, not checkered, plain finished..... Each, $30.00
Weight, about 8 lbs.

# MARLIN FIRE ARMS CO. REPEATING SHOTGUNS.

Model 1898. Made Only in Take Down. 12 Gauge



6 Shots.

**Grade A**—30 or 32-inch barrel of special rolled steel, walnut stock, rubber butt-plate. Weight, 7 to 7¼ lbs. ....Each, $ 24 00

**Grade A B**—Brush or Riot Gun, for bird shooting in thickly wooded sections, also for shooting with buckshot 26-inch barrel only. Weight, 6¾ lbs. ..Each, 24.00

**Grade C**—30-inch special smokeless steel barrel, figured walnut stock and fore-end, hand-engraved ornamenting. Weight, 6⅞ to 7⅛ lbs.. Each, 40 00

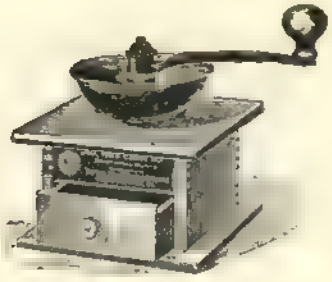
**Grade D**—30-inch fine Damascus barrel, Circassian walnut stock and fore-end, hand checked. The frame is elaborately engraved with fine hand work. Weight, 6⅞ to 7⅛ lbs.....Each, 100 00

# SPENCER REPEATING SHOTGUNS.

Take Down.

**Grade E**—Fine twist barrels, 30 inches, 12 gauge only, walnut stock, sliding fore-end, case hardened frame .....Each, $25 00
Weight, about 7 lbs.

# COFFEE MILLS.



Japanned Hopper

| No. | 1088 |
|---|---|
| Size, inch | 6x6x3⅜ |
| Weight, lbs | 45 |
| Per dozen | $4 00 |

Air-tight. Bronzed Iron Castings Capacity, One Pound.

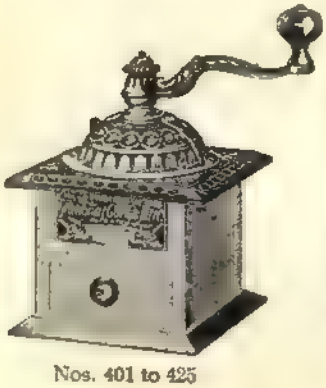
| No. | 1080 |
|---|---|
| Size, inch | 5⅛x6⅝x7⅝ |
| Weight, lbs | 65 |
| Per dozen | $8 00 |

Lithographed Sheet Metal Body. Hardwood Base. Capacity, One Pound

| No. | 50 |
|---|---|
| Size, inch | 5¼x5¼x7¼ |
| Weight, lbs | 45 |
| Per dozen | $10.00 |

Lithographed Sheet Metal Body Hardwood Base and Cast Top Capacity, One Pound.

| No. | 51 |
|---|---|
| Size, inch | 5¼x5¼x6½ |
| Weight, lbs | 45 |
| Per dozen | $12 00 |



Nos. 401 to 425

| Nos. | 401 | 402 | 425 |
|---|---|---|---|
| Size, inch | 5x5x5 | 6x5¼x5¼ | 6½x6¼x5¼ |
| Weight, lbs | 66 | 84 | 92 |
| Per dozen | $13 00 | 14 00 | 15.00 |

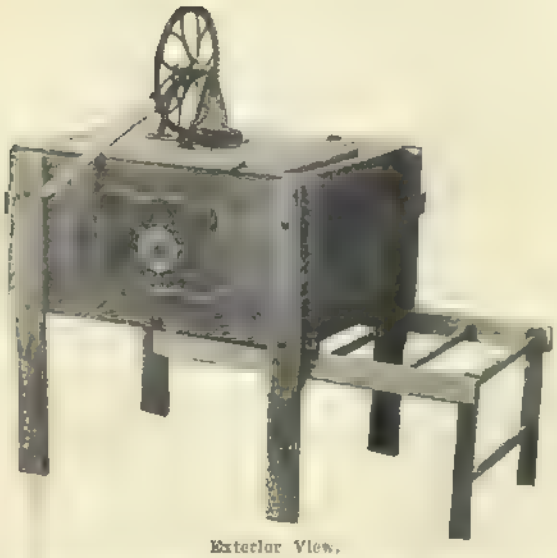
| No. | 431 |
|---|---|
| Size, inch | 5x5x5 |
| Weight, lbs | 62 |
| Per dozen | $13 50 |

Nos. 50 and 51, one dozen; balance, one-half dozen in case.

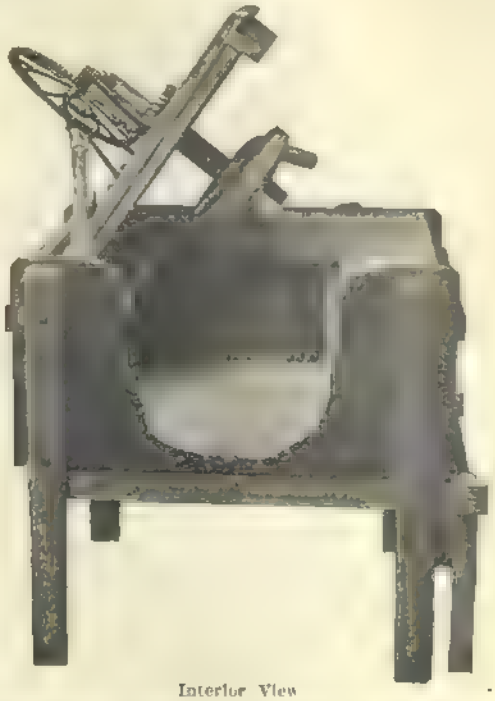
# Washing Machines.

## The Improved Western.

### Square.



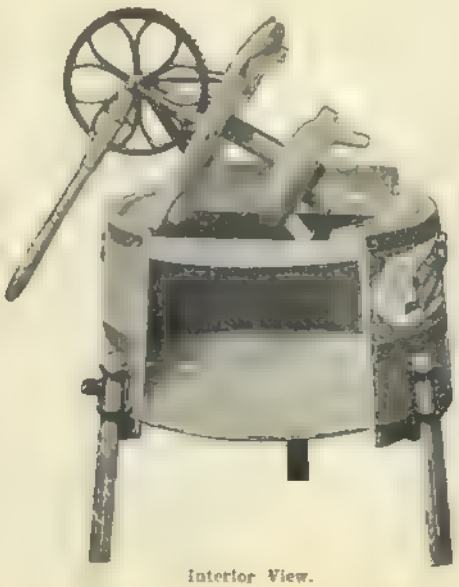
Exterior View.



Interior View

The Gearing is fastened to the lid the same packed in the sud box for shipment To set up the Washer it is only necessary to secure the center board of the lid with six screws.

**No. 2**—Inside Dimensions, 17⅝ × 23½ × 10⅝ in., Weight Crated Each, 52 lbs..... Each, $5 00
**No. 3**— " " 19½ × 25½ × 11½ " " " " " 57 " ..... " 6 00



Interior View.

## The Improved Western.

### Round.

The gearing is the same as in the square. The staves and bottom in this machine are corrugated

**No. 2**—Inside Dimensions, 23 × 11 in., Weight Crated Each, 40 lbs.. Each, $5 00

Exterior View.

# INDIAN CLUBS AND DUMB-BELLS.

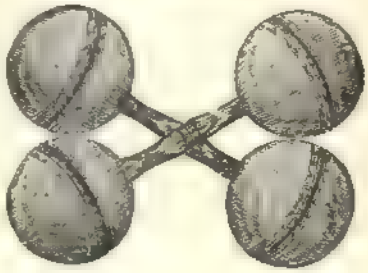
## MAPLE INDIAN CLUBS.

| Weight, each, lbs. | ½ | ¾ | 1 | 1½ | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|---|---|
| Per pair | $0.40 | .50 | .60 | .70 | .80 | 1.00 | 1.30 | 1.50 |

INDIAN CLUBS.

## IRON DUMB-BELLS.

## MAPLE DUMB-BELLS.



| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Iron Dumb-bells, Japanned, weight 1 to 25 lbs. | | | | | | | Per lb., | $0.10 |
| " " Nickel, weight 1 to 3 lbs. | | | | | | | | 20 |
| Maple " " Weight, each, lbs. | ½ | ¾ | 1 | 1½ | 2 | 3 | 4 | |
| ...Per pair, | $0.40 | .50 | .60 | .70 | .80 | 1.00 | 1.30 | |

# WHITELY EXERCISERS.

**No. 0**—Complete in a box, with foot attachment and package of hooks, heavy, medium, light or child's cable . . . . . Each, $2 00

**No. 1**—Exerciser and Anderson's Physical Education, fitted with noiseless, cone bearing, adjustable pulleys, complete in a box, with foot attachments, and a package of hooks, heavy, medium, light or child's cable . . . . . Each, 3 00

**No. 2**—Athlete Exerciser and Physical Education, fitted with nickel-plated noiseless, cone bearing, adjustable pulleys, complete in a box, with foot attachments, door hinge attachments and package of hooks, heavy, medium, light or child's cable . . . . . Each, 4.50

**No. 3**—Special Exerciser, with Anderson's Physical Education, fitted with noiseless, cone bearing, adjustable pulleys and silk covered cable, hard rubber or cork handles, complete in a box, with foot attachments, door hinge attachments, and package of hooks, heavy, medium, light or child's cable . . . . . Each, 5.00

# McFADDEN EXERCISERS.

**Style D**—With instruction book, wood pulleys, metal parts plain finish, strength from 3 to 25 lbs. . . . . Each, $2.00

**Style C**—With large instruction book, metal pulleys, plain finished parts, fiber bearings, all parts guaranteed . . . . . Each, 3.00

**Style B**—With large instruction book, fiber bearing pulleys, nickel plated parts, wood handles, all parts guaranteed for one year. . . . . Each, 4.00

**Style A**—With large instruction book, cork handles, boxwood pulleys, nickel-plated parts, guaranteed for one year. . . . . Each, 5.00

# Boat Nails.

Galvanized, Wrought.

| Length, inch | 1 | 1¼ | 1½ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3½ | 4 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Per Pound | $0 16 | 0 15 | 0 14 | 0 14 | 0 14 | 0 14 | 0 14 | 0 14 | 0 14 | 0 14 | 0 14 |

One Hundred Pounds in a Keg.

Copper.

| Length, inch | ⅝ | ¾ | ⅞ | 1 | 1⅛ | 1¼ | 1⅜ | 1¾ | 2 | 2¼ | 2½ | 2¾ | 3 | 3½ | 4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Per Pound | $0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 | 0 50 |

Five Pounds in a Carton.

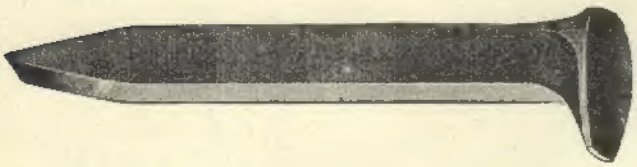
# Wrought Ship Spikes.

| | | | | | | | | | | Black | Galv. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ¼ in., Diameter, Length, inch | 4 | 4½ | 5 | 5½ | 6 | | | | Per 100 lbs. | $4 75 | 6 25 |
| Average Number in 100 lbs. | 1100 | 943 | 900 | 865 | 845 | | | | | | |
| 5/16 in., Diameter, Length, inch | 4 | 4½ | 5 | 5½ | 6 | 7 | 8 | | " " " | 4 50 | 6 00 |
| Average Number in 100 lbs. | 720 | 685 | 625 | 603 | 580 | | | | | | |
| ⅜ in., Diameter, Length, inch | 5 | 5½ | 6 | 6½ | 7 | 8 | 9 | 10 | " " " | 4 25 | 5 75 |
| Average Number in 100 lbs. | 485 | 380 | 370 | 340 | 308 | 293 | 250 | 215 | | | |
| 7/16 in., Diameter, Length, inch | 6 | 6½ | 7 | 8 | 9 | 10 | | | " " " | 4 25 | 5 75 |
| Average Number in 100 lbs | 315 | 305 | 295 | 260 | 200 | 180 | | | | | |
| ½ in., Diameter, Length inch | 5 | 6 | 7 | 8 | 9 | 10 | 12 | | " " " | 4 00 | 5 50 |
| Average Number in 100 lbs. | 250 | 200 | 189 | 165 | 155 | 123 | 110 | | | | |

Two Hundred Pounds in a Keg.

# Wrought Railroad Spikes.

Regular.



Reverse Point.

Regular.

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 5/16 in., Diameter, Length, inch | 2½ | | | | | Per 100 lbs., | $4 50 |
| Average Number in 100 lbs. | 1100 | | | | | | |
| ⅜ in., Diameter, Length, inch | 2½ | 3 | 3½ | 4 | 4½ | " " " | 4 25 |
| Average Number in 100 lbs. | 775 | 675 | 625 | 500 | 410 | | |
| ½ in., Diameter, Length, inch | | 4 | 4½ | 5 | | " " " | 4 00 |
| Average Number in 100 lbs. | | 295 | 269 | 245 | | | |
| 9/16 in., Diameter, Length, inch | | 5 | 5½ | | | " " " | 4 00 |
| Average Number in 100 lbs. | | 200 | 180 | | | | |

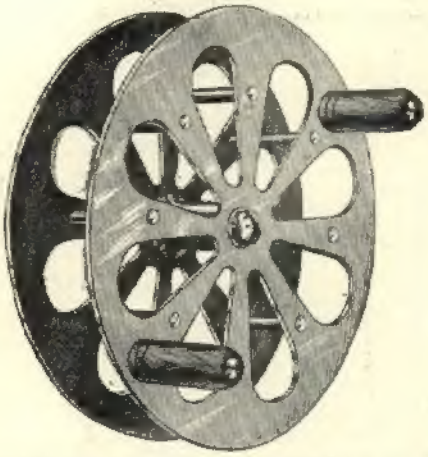
Reverse Point.

| | | | | | |
|---|---|---|---|---|---|
| ⅜ in., Diameter, Length, in. | 3½ | 4 | | Per 100 lbs., | $4 25 |
| Average Number in 100 lbs. | 590 | 500 | | | |
| ½ in., Diameter, Length, in. | 4 | 4½ | | " " " | 4 00 |
| Average Number in 100 lbs. | 295 | 295 | | | |

Two Hundred Pounds in a Keg.

# FISHING REELS.

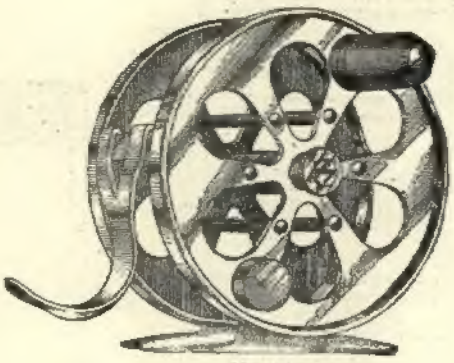
## AMATEUR.



Full Nickel-Plated Free Running. Without Drag. 4⅝-Inch Diameter. Attaches to Side of Rod.
An excellent reel for sea fishing.

**No. 1**—Amateur. 150 yards.....Per dozen, $21.00

## EXPERT.

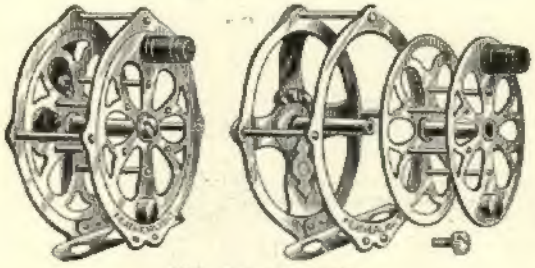


No. 22.

Full Nickel-Plated. Sliding Click

| | | | | |
|---|---|---|---|---|
| **No. 19 N**— | 40 yards. | Nickel-plated..... | Per dozen, | $24.00 |
| **No. 19 B**— | 40 " | Blued finish..... | " | 24.00 |
| **No. 17 N**— | 100 " | Nickel-plated..... | " | 30.00 |
| **No. 17 B**— | 100 " | Blued finish ..... | " | 30.00 |
| **No. 22 N**— | 200 " | Nickel-plated..... | " | 39.00 |
| **No. 22 B**— | 200 " | Blued finish ..... | " | 39.00 |

## FEATHERLIGHT.



Nos. 270 and 270 B.

Full Nickel-Plated. Sliding Click. Removable Spool. All Steel Bearings. Lightest Reel Made.

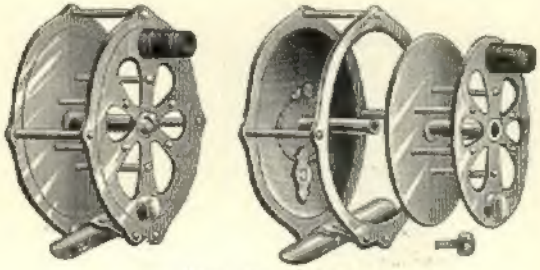
| | | | | |
|---|---|---|---|---|
| **No. 270** | —Bright finish. | 60 yards..... | Per dozen, | $24.00 |
| **No. 270 B**— | Black " | 60 " ..... | " | 24.00 |

## MARTIN'S STANDARD, AUTOMATIC.

Aluminum.

| | | |
|---|---|---|
| **No. 2**—Fly casting..... | Each. | $7.00 |
| **No. 3**—Bass..... | " | 8.00 |
| **No. 4**—Salmon ..... | " | 9.00 |

## ALL RIGHT.

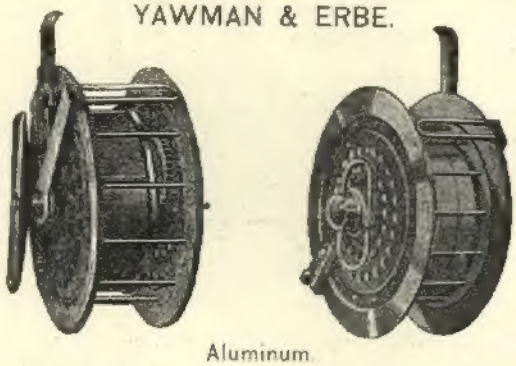


Nos. 120 and 130.

Full Nickel-Plated. Sliding Click. Removable Spool. Closed Back Plate to Keep Out Dirt. All Steel Bearings.

| | | | |
|---|---|---|---|
| **No. 120**— | 80 yards..... | Per dozen | $24.00 |
| **No. 130**— | 150 " ..... | " | 30.00 |

## YAWMAN & ERBE.

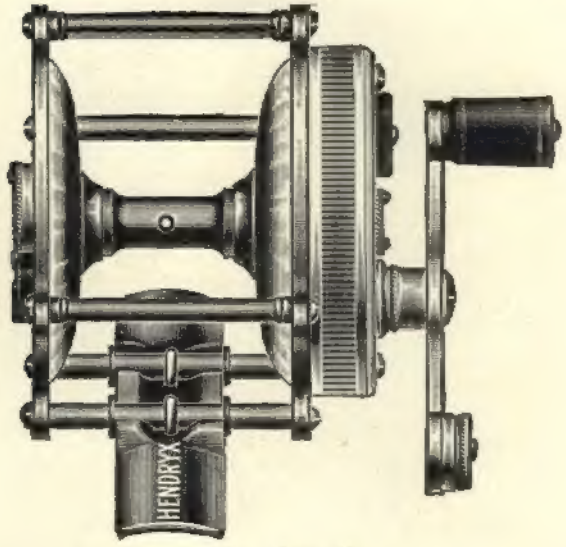


Aluminum.

| | Nos. 1 and 2. | Nos. A. B and C. | | |
|---|---|---|---|---|
| **No. 1**—Automatic. | 30 yards..... | | Each, | $ 5.00 |
| **No. 2**— | " 50 " ..... | | " | 6.00 |
| **No. A**—Combination automatic. | | 40 yards ..... | " | 7.00 |
| **No. B**— | " " | 100 " ..... | " | 8.00 |
| **No. C**— | " " | 200 " ..... | " | 9.00 |

One-twelfth dozen in box.

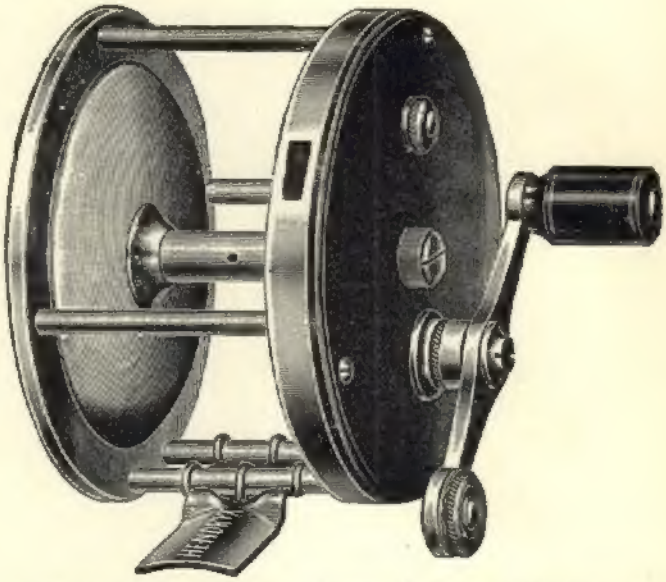
# FISHING REELS.




Nos. 12 and 13.

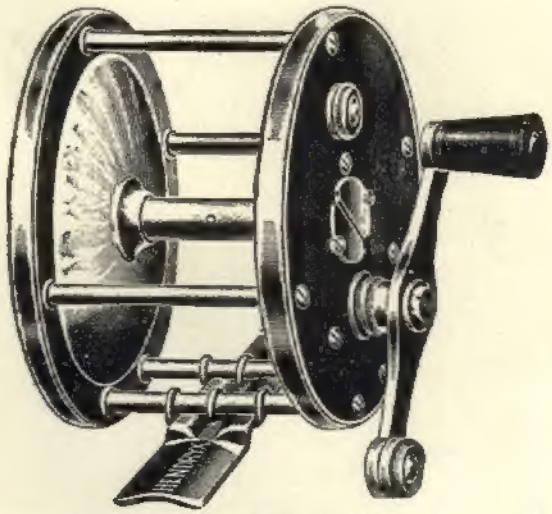
Double Multiplying. Raised Pillar. Adjustable Drag. Sliding Steel Click. Steel Pivots, Pinions, Ratchets and Clicks. Balance Handle.

| | | | | |
|---|---|---|---|---|
| **No. 12**—Aluminum. | 60 yards | Each, | $5.50 |
| **No. 12**— " | 80 " | " | 6.00 |
| **No. 12**— " | 100 " | " | 6.50 |
| **No. 13**—German silver. | 60 " | " | 5.50 |
| **No. 13**— " " | 80 " | " | 6.00 |
| **No. 13**— " " | 100 " | " | 6.50 |



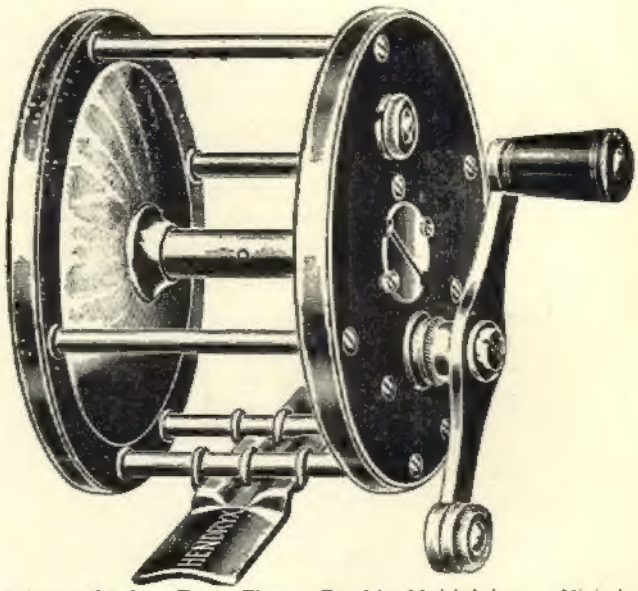
Double Multiplying. Interchangeable Parts. Solid 2⅞-Inch Rubber Discs. Globe Bearings with Oil Caps. Adjustable Sliding Click and Drag.

| | | | |
|---|---|---|---|
| **No. 20**— | 60 yards | Each, | $4.00 |
| **No. 20**— | 80 " | " | 5.00 |
| **No. 20**—100 | " | " | 6.00 |



Quadruple Multiplying. 2¾-Inch Rubber Discs. Globe Bearings with Oil Caps. Adjustable. Sliding Click and Drag.

| | | | |
|---|---|---|---|
| **No. 40**— | 60 yards | Each, | $5.50 |
| **No. 40**— | 80 " | " | 6.50 |
| **No. 40**—100 | " | " | 7.50 |



Salmon Reel. Extra Fine. Double Multiplying. Nickel-Plated. Adjustable Globe Bearings. Oil Caps. Sliding Click and Drag. Cross Plate and Balance Handle.

| | | | |
|---|---|---|---|
| **No. 60**—200 | yards | Each, | $7.50 |
| **No. 60**—250 | " | " | 8.50 |
| **No. 60**—350 | " | " | 9.50 |

One-half dozen in box.

# Fishing Reels.

## Martin Automatic.

Nos. 2 and 3.

Martin Aluminum Automatic Reel. The main spring easily adjusted to greater or less tension at any time.

**No. 2**—Line Spool 2¾ in. in Diameter, will Hold 25 yds. of Medium Line.....Each, $7 00
**No. 3**—Line Spool 2¾ in. in Diameter, will Hold 50 yds. of Line.....Each, 8 00

## Y. and E. Automatic.

Nos. 1 and 2.

Y. & E. Aluminum Automatic Reel. The line can be drawn off as rapidly as desired by keeping the break released and allowing the little finger to rest on the edge of the spool whenever the line is dropped.

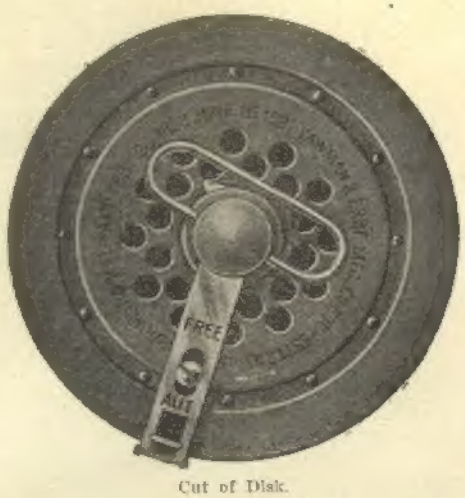
**No. 1**—Carries 30 yds. of Line, Weight Each, 8 oz.....Each, $5 00
**No. 2**—Carries 50 yds. of Line, Weight, Each, 12 oz.....Each, 6 00

## Y. and E. Automatic Combination.

Nos. A and B.

Y. & E. Aluminum Automatic Combination Reel can be used for Fly Casting or Bait Casting as well as ordinary fishing. The Spool is operated by a Steel Spring which is incased in a Watertight Aluminum Box.

**No. A**—125 ft., Aluminum, Winds 50 ft. Automatically without Rewinding.....Each, $7 00
**No. B**—300 ft., Aluminum, Winds 90 ft. Automatically without Rewinding.....Each, 8 00




Cut of Disk.

When casting, the free-running feature of the reel comes into play. The change from automatic to free-running can be made almost instantly by pressing the slide on line regulator towards the center of the spool, as indicated. The line may be taken up after the cast is made by pressing the slide toward the center again and keeping the brake released, thus bringing into play the automatic action.